

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P534402

Luminaire Tested: **GALN-SA9D-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43243 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

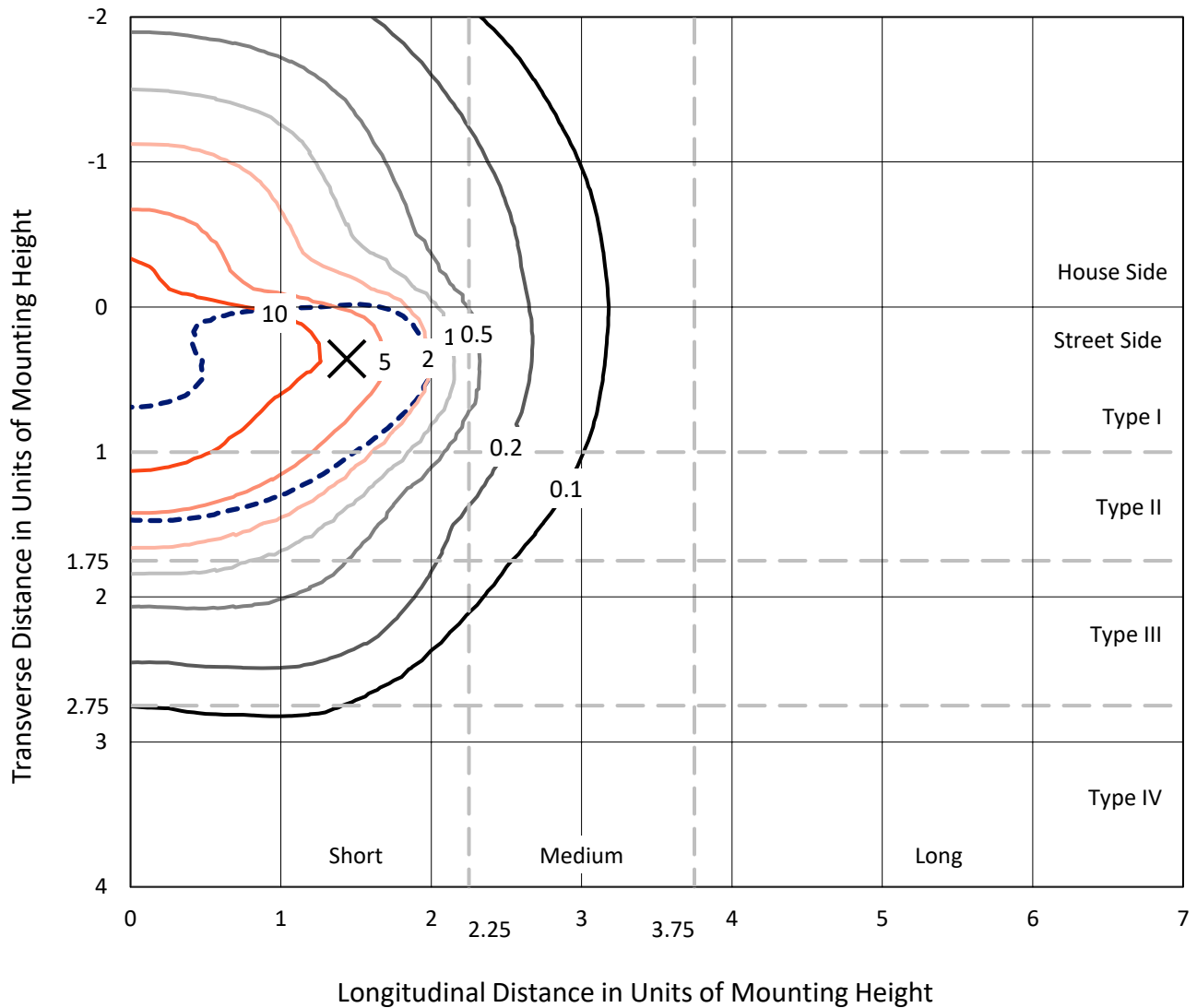
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

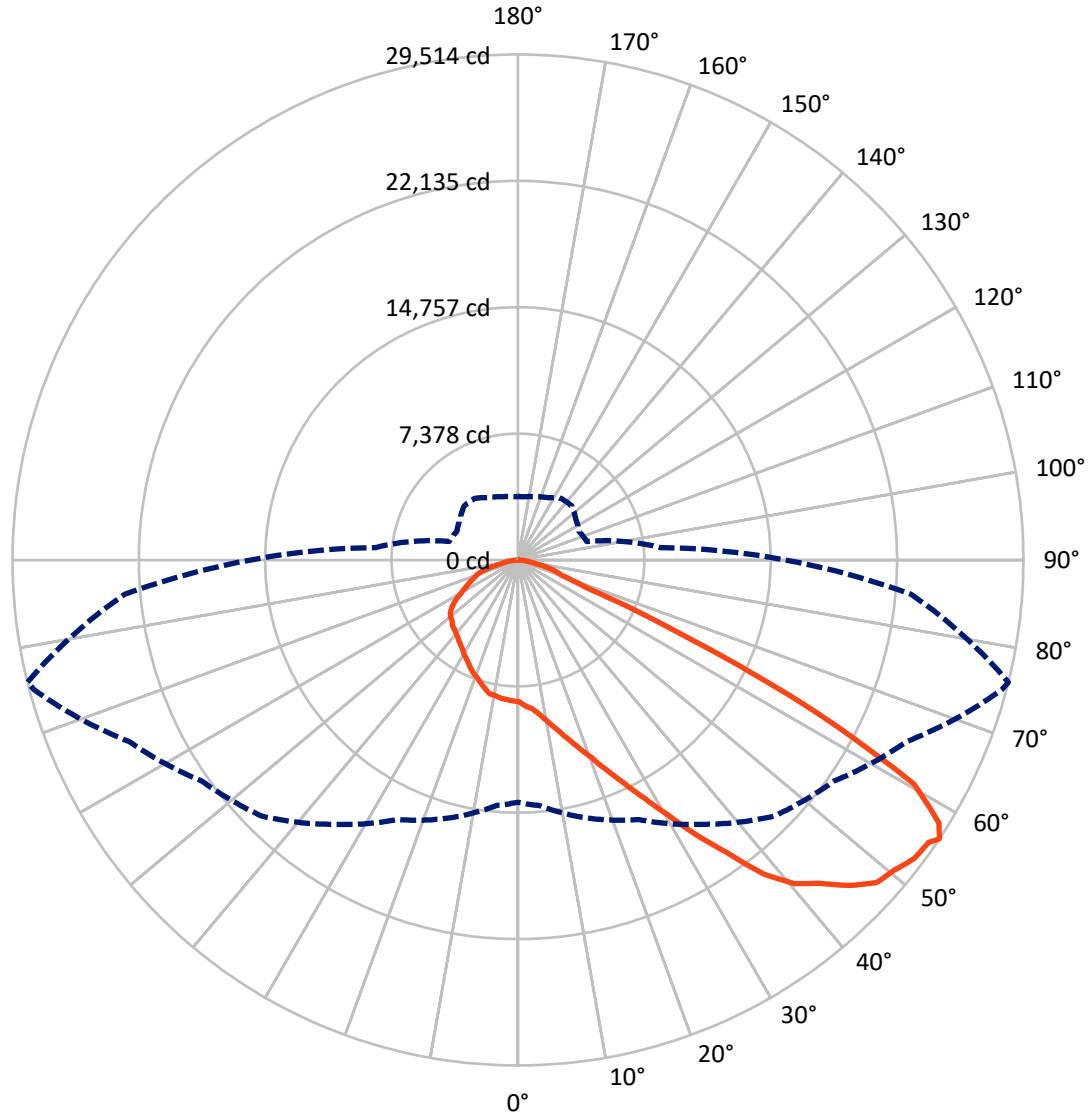
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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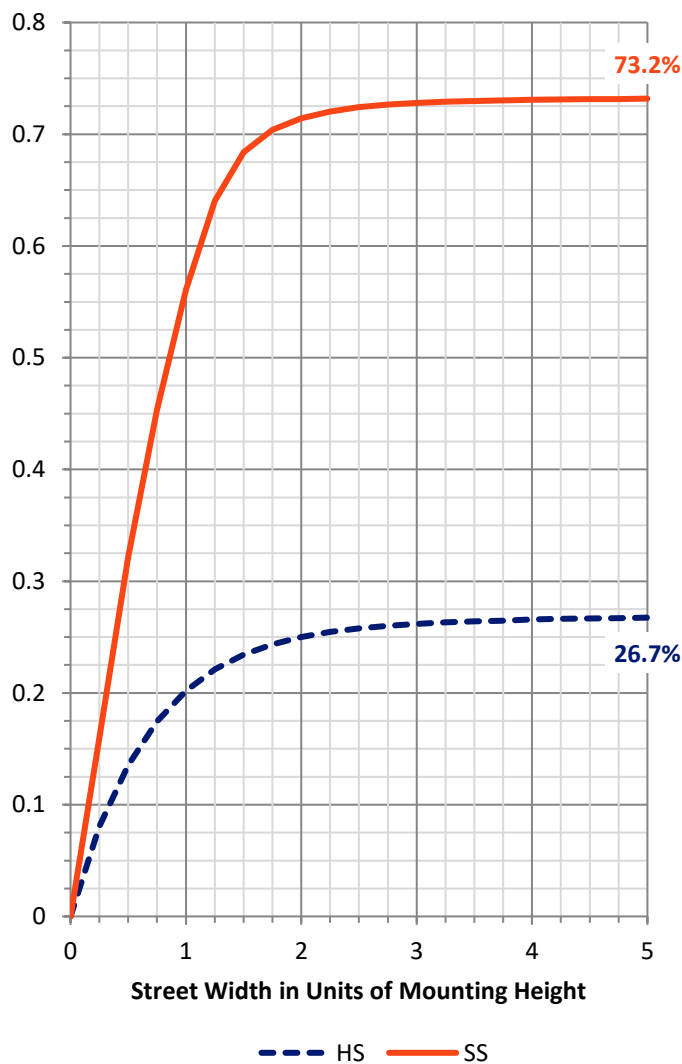
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11626.7	0.0	11626.7
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	31616.2	0.0	31616.2
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	43243.0	0.0	43243.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	820.5	1.9
10°-20°	2577.5	6.0
20°-30°	4507.8	10.4
30°-40°	7057.9	16.3
40°-50°	10267.2	23.7
50°-60°	11284.3	26.1
60°-70°	5036.8	11.6
70°-80°	1454.8	3.4
80°-90°	236.0	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	43243.0	100.0
0°-180°	43243.0	100.0

**Coefficient of Utilization**



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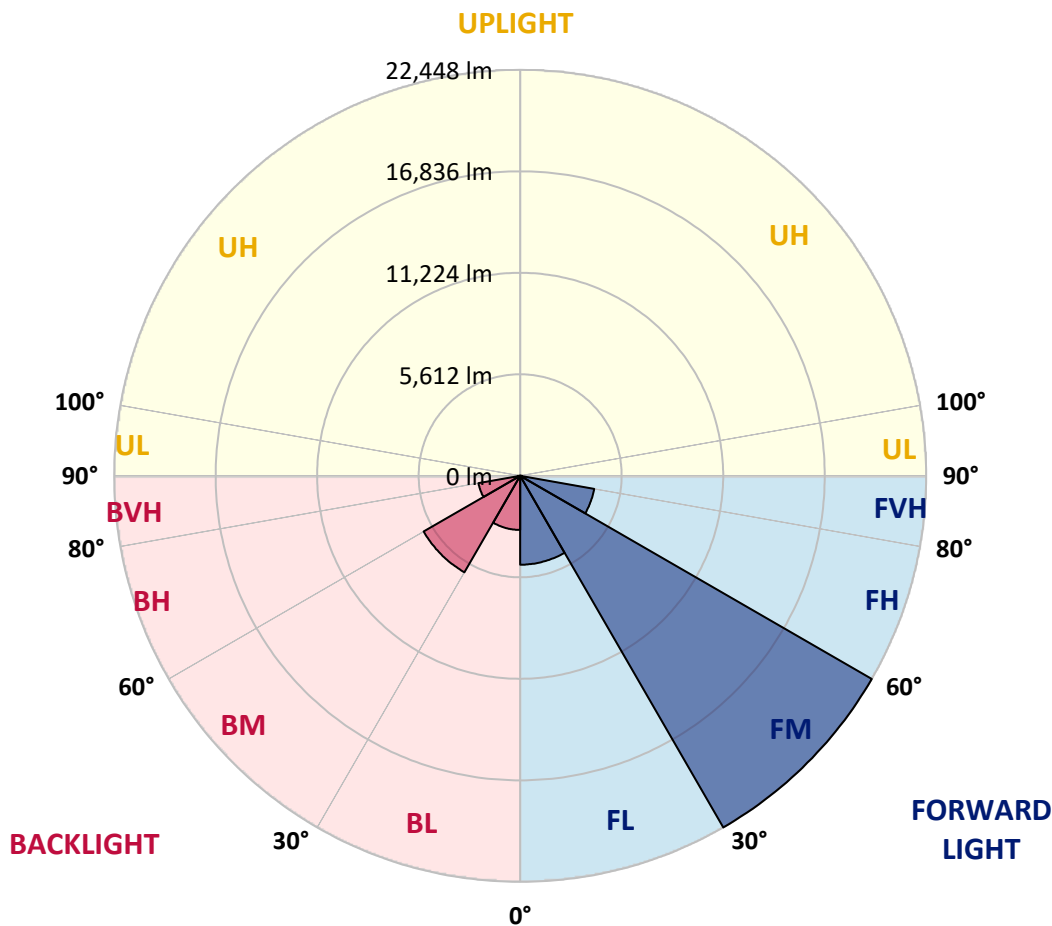
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4914.1	11.4			
FM (30°-60°)	22448.2	51.9			
FH (60°-80°)	4152.3	9.6			G2/5000
FVH (80°-90°)	101.6	0.2			G2/225
BL (0°-30°)	2991.8	6.9	B4/5000		
BM (30°-60°)	6161.2	14.2	B4/8500		
BH (60°-80°)	2339.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	134.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0
2.5°	9114.8	8969.1	8957.9	8918.6	8941.1	8840.2	8733.7	8593.5	8447.8	8537.5	8324.4
5°	9753.9	9557.7	9636.2	9501.6	9518.5	9383.9	9165.3	9002.7	8823.4	8716.8	8565.5
7.5°	9978.1	9994.9	10051.0	10028.6	9916.5	9916.5	9770.7	9484.8	9170.9	9109.2	8857.0
10°	10280.8	10286.4	10224.8	10241.6	10398.5	10325.7	10196.7	10073.4	9669.8	9596.9	9148.5
12.5°	10387.3	10286.4	10387.3	10477.0	10662.0	10762.9	10734.9	10645.2	10213.6	10163.1	9507.2
15°	10404.2	10342.5	10426.6	10628.4	10790.9	11217.0	11430.0	11368.3	10796.6	10802.2	9910.9
17.5°	10325.7	10409.8	10443.4	10617.2	10992.8	11390.8	12007.4	12091.5	11620.6	11547.7	10421.0
20°	10432.2	10370.5	10415.4	10572.3	11071.2	11693.5	12500.7	13055.6	12394.2	12343.7	10947.9
22.5°	10841.4	10757.3	10746.1	10847.0	11205.8	11850.4	13022.0	14019.8	13335.9	13364.0	11603.8
25°	11160.9	11205.8	11166.5	11160.9	11385.1	12085.9	13711.5	15169.0	14614.0	14451.5	12377.4
27.5°	11710.3	11816.8	11738.3	11844.8	11794.4	12439.0	14204.8	16441.5	15993.0	15774.4	13078.1
30°	12472.7	12528.7	12455.8	12455.8	12304.5	12932.3	14653.3	17770.0	17585.0	17287.9	13902.1
32.5°	13476.1	13560.2	13414.4	13330.3	13307.9	13666.7	15460.5	19081.8	19395.7	19143.4	14995.2
35°	14804.6	14754.2	14580.4	14501.9	14199.2	14793.4	16660.1	20589.7	21413.7	20965.3	16318.2
37.5°	15976.2	15897.7	15886.5	15449.3	15522.1	16009.8	17680.3	21733.2	23370.1	23241.2	17714.0
40°	17069.3	17142.2	17259.9	17013.3	16901.1	17439.3	18868.7	22607.7	24889.2	24838.8	18790.3
42.5°	18240.9	18173.6	18381.0	18173.6	18005.5	18767.8	20158.0	23213.1	26223.4	25808.6	19917.0
45°	19939.4	19726.4	19799.3	19816.1	19692.8	19973.1	20690.6	23650.4	27159.5	27114.7	20741.0
47.5°	21357.7	21363.3	21239.9	21144.6	20769.1	21049.4	21284.8	23925.1	28235.8	28163.0	21060.6
50°	21884.6	21811.7	22170.5	22377.9	22400.3	21828.5	21750.1	24076.4	28802.0	28482.5	21380.1
52.5°	19989.9	20057.1	20623.3	21856.6	22568.5	22630.2	22293.8	24390.3	29031.8	28964.6	21637.9
55°	16088.3	16413.4	17344.0	18767.8	20455.1	22310.6	22882.4	24715.5	29155.2	29099.1	22781.5
56°	14143.1	14395.4	15606.2	16721.8	18840.7	21150.3	22512.4	25063.0	29250.5	29513.9	23050.6
57.5°	11385.1	11676.6	12545.5	13812.4	16312.5	18941.6	21492.2	24637.0	28880.5	28981.4	23246.8
60°	7119.2	7147.2	8189.9	9025.2	10785.3	13352.7	16402.2	21436.1	26727.9	26582.2	20881.2
62.5°	4669.5	4675.1	5622.5	6306.4	7108.0	7696.6	9653.0	14216.0	19720.8	19462.9	14866.3
65°	3279.3	3352.2	4086.5	5000.3	5325.4	5017.1	4955.4	7494.8	11015.2	10645.2	7988.1
67.5°	2399.2	2404.8	3055.1	4036.1	4507.0	3817.5	3099.9	3660.5	4361.2	4350.0	3699.8
70°	1586.4	1653.7	2152.6	3015.9	3554.0	3066.3	2533.8	2617.9	2774.8	2774.8	2752.4
72.5°	924.9	986.6	1317.3	1911.5	1995.6	1917.1	2006.8	2242.3	2343.2	2337.6	2309.5
75°	526.9	555.0	627.8	796.0	992.2	1171.6	1474.3	1698.5	1799.4	1861.1	1788.2
77.5°	308.3	325.1	370.0	454.1	515.7	633.4	801.6	958.6	1093.1	1076.3	1087.5
80°	162.6	162.6	207.4	269.1	358.8	448.5	532.5	622.2	695.1	711.9	728.7
82.5°	95.3	100.9	134.5	196.2	257.9	319.5	409.2	470.9	538.1	543.8	555.0
85°	50.5	56.1	84.1	128.9	173.8	196.2	201.8	190.6	207.4	196.2	224.2
87.5°	16.8	16.8	28.0	22.4	22.4	28.0	33.6	33.6	44.8	44.8	44.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0	8274.0
2.5°	8318.8	8318.8	8223.5	8044.2	8016.1	7943.3	7876.0	7870.4	7819.9	7775.1	7752.7
5°	8475.8	8302.0	8161.9	7999.3	7808.7	7719.0	7618.1	7506.0	7461.2	7506.0	7500.4
7.5°	8655.2	8509.4	8089.0	7786.3	7567.7	7478.0	7365.9	7248.2	7259.4	7259.4	7180.9
10°	8829.0	8632.8	7960.1	7573.3	7253.8	7186.5	7124.8	7169.7	7225.7	7236.9	7186.5
12.5°	9120.5	8677.6	7898.4	7360.3	7158.5	7012.7	7052.0	7175.3	7293.0	7259.4	7298.6
15°	9339.1	8716.8	7618.1	7141.6	6889.4	6956.7	7096.8	7180.9	7377.1	7354.7	7393.9
17.5°	9552.1	8739.3	7343.4	6850.1	6743.6	6928.6	7035.1	7276.2	7337.8	7472.4	7522.8
20°	9989.3	8784.1	7063.2	6670.8	6637.1	6850.1	7035.1	7147.2	7281.8	7399.5	7399.5
22.5°	10213.6	8761.7	6878.2	6435.3	6541.8	6676.4	6844.5	7035.1	7035.1	7147.2	7152.9
25°	10493.8	8672.0	6586.7	6323.2	6401.7	6530.6	6721.2	6653.9	6726.8	6726.8	6816.5
27.5°	10813.4	8481.4	6334.4	6121.4	6278.4	6418.5	6446.5	6401.7	6317.6	6306.4	6272.8
30°	11071.2	8246.0	6149.4	6054.1	6183.1	6261.6	6171.9	6076.6	5930.8	5919.6	5841.1
32.5°	11424.4	7954.5	5919.6	5886.0	6031.7	6037.3	6009.3	5863.5	5650.5	5560.8	5471.1
35°	12018.6	7786.3	5745.8	5796.3	5841.1	5824.3	5773.9	5616.9	5403.9	5364.6	5331.0
37.5°	12455.8	7663.0	5566.4	5628.1	5667.3	5689.8	5538.4	5364.6	5370.2	5291.8	5269.3
40°	12949.1	7584.5	5420.7	5448.7	5454.3	5527.2	5342.2	5258.1	5297.4	5246.9	5280.6
42.5°	13582.6	7606.9	5269.3	5246.9	5353.4	5325.4	5235.7	5123.6	5146.0	4994.7	5017.1
45°	13918.9	7758.3	5179.7	5078.8	5196.5	5190.9	5073.1	4966.6	4832.1	4540.6	4551.8
47.5°	14143.1	7797.5	4966.6	4899.4	5022.7	5095.6	4961.0	4714.4	4523.8	4316.4	4265.9
50°	14373.0	7870.4	4865.7	4725.6	4776.0	4949.8	4781.7	4546.2	4361.2	4176.2	4204.3
52.5°	14574.8	8010.5	4669.5	4462.1	4551.8	4742.4	4652.7	4366.8	4165.0	4013.7	3968.8
55°	15471.7	8324.4	4338.8	4069.7	4282.7	4523.8	4473.3	4125.8	3907.2	3828.7	3817.5
56°	15611.8	8335.7	4165.0	3935.2	4131.4	4450.9	4389.3	4019.3	3823.1	3699.8	3705.4
57.5°	15634.3	8201.1	3918.4	3811.9	3980.0	4344.4	4265.9	3935.2	3666.1	3554.0	3520.4
60°	13756.4	6401.7	3610.1	3542.8	3739.0	4019.3	3991.2	3705.4	3402.7	3273.7	3335.4
62.5°	9378.3	4692.0	3369.0	3357.8	3458.7	3733.4	3660.5	3402.7	3150.4	3066.3	3027.1
65°	5459.9	3559.6	3133.6	3088.7	3172.8	3318.6	3369.0	3099.9	2836.5	2780.4	2763.6
67.5°	3223.3	2943.0	2830.9	2758.0	2730.0	2819.7	2858.9	2701.9	2438.5	2360.0	2427.3
70°	2696.3	2617.9	2623.5	2500.1	2432.9	2371.2	2337.6	2197.4	1978.8	1877.9	1849.9
72.5°	2326.4	2292.7	2270.3	2158.2	2096.5	1956.4	1810.6	1670.5	1507.9	1423.8	1429.4
75°	1777.0	1765.8	1777.0	1720.9	1614.4	1502.3	1367.8	1188.4	1065.1	958.6	981.0
77.5°	1059.5	1093.1	1109.9	1087.5	1042.7	941.8	857.7	740.0	622.2	538.1	526.9
80°	728.7	756.8	784.8	756.8	711.9	639.0	549.4	459.7	375.6	330.7	319.5
82.5°	555.0	583.0	599.8	571.8	515.7	437.2	375.6	313.9	246.7	201.8	190.6
85°	201.8	229.8	224.2	269.1	291.5	280.3	241.0	185.0	140.1	100.9	95.3
87.5°	56.1	50.5	56.1	56.1	56.1	50.5	44.8	44.8	44.8	28.0	22.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)