

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: P534233

Luminaire Tested: **GALN-SA9D-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-727-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43752 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

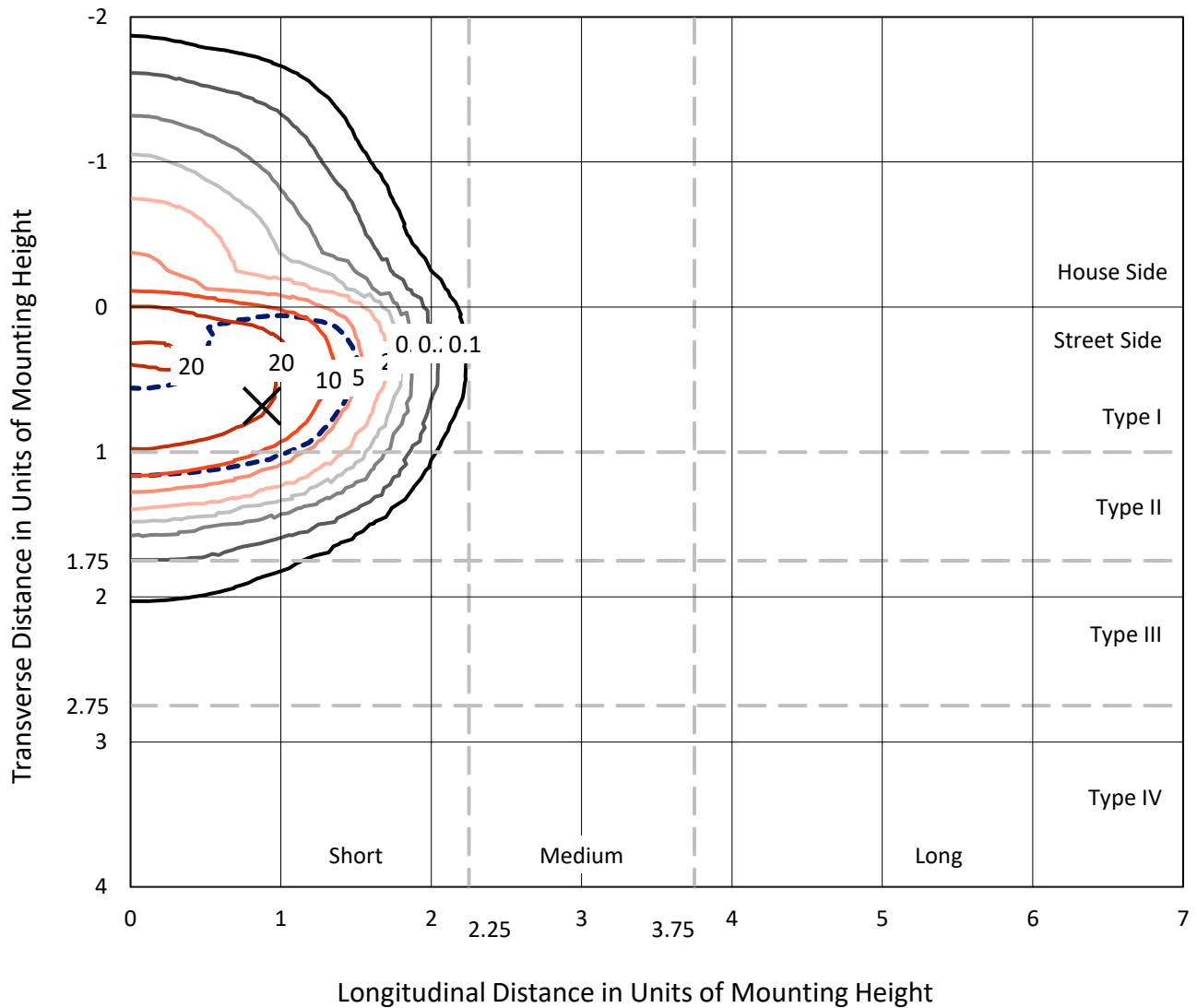
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

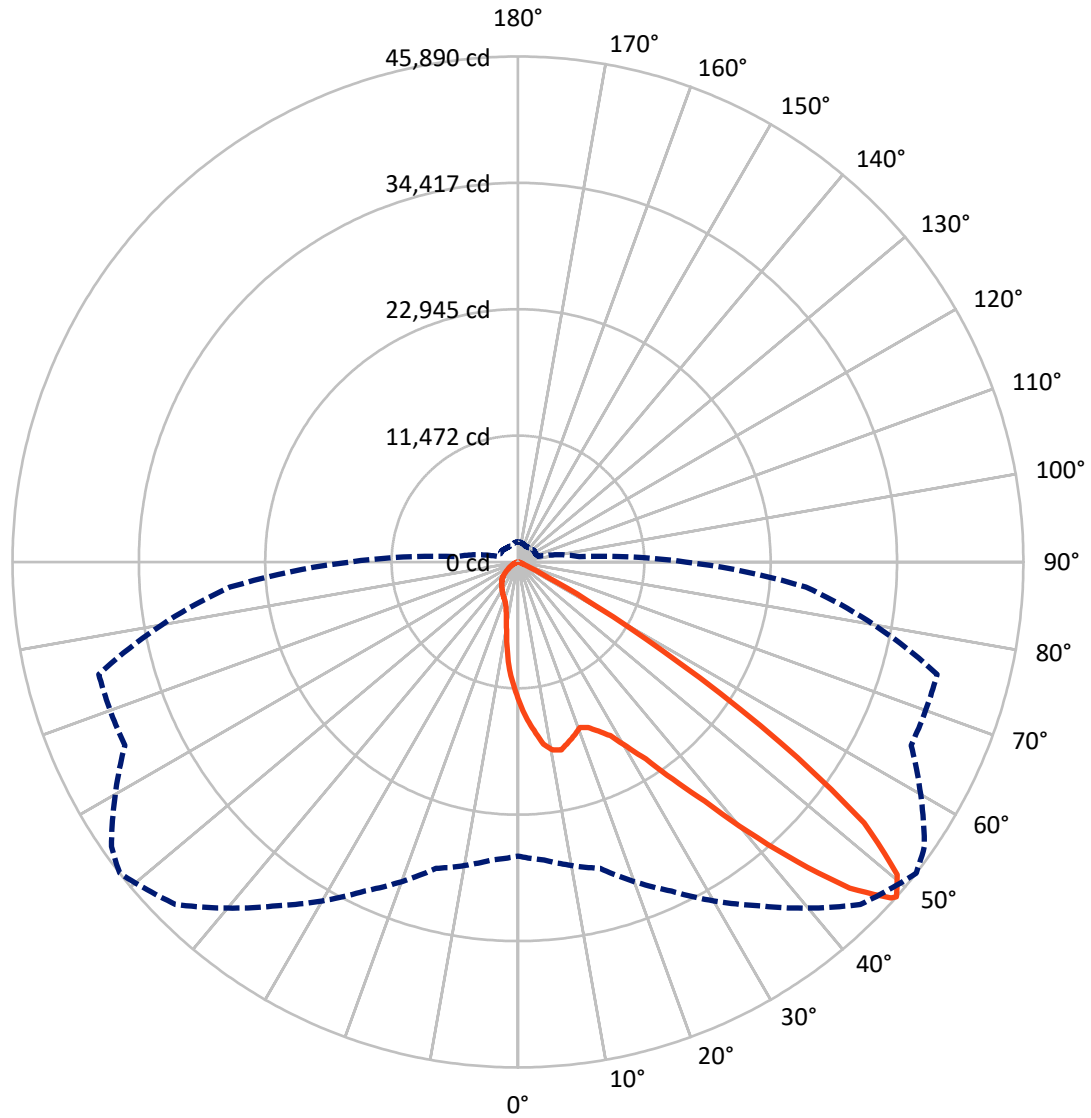
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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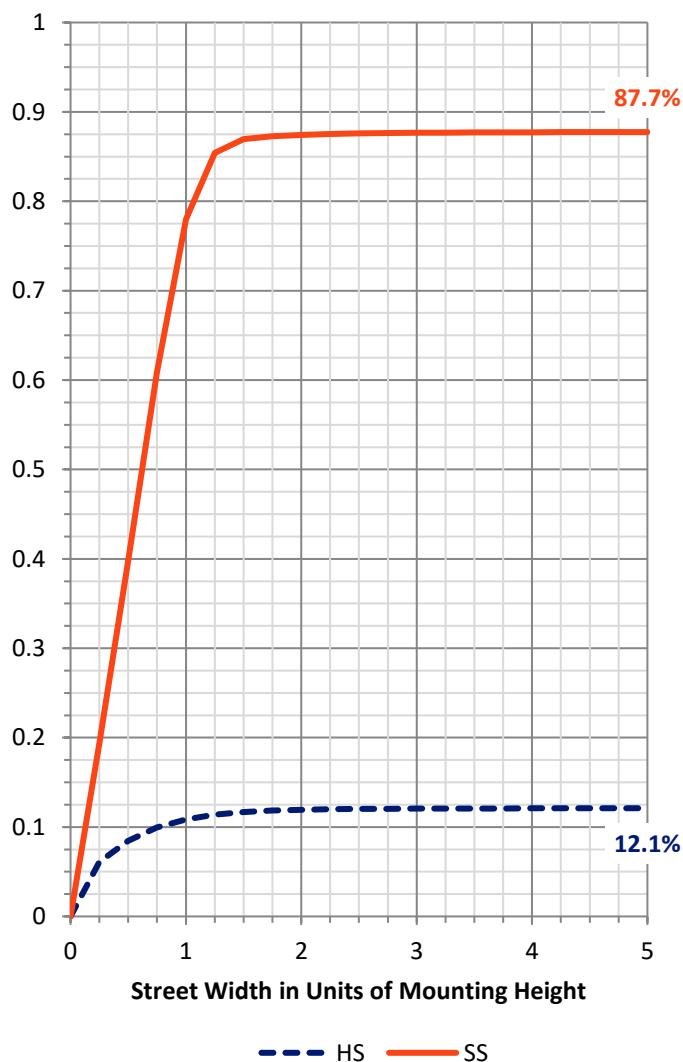
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5327.2	0.0	5327.2
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	38424.8	0.0	38424.8
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	43752.0	0.0	43752.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1156.5	2.6
10°-20°	3022.2	6.9
20°-30°	5160.2	11.8
30°-40°	9502.4	21.7
40°-50°	14757.3	33.7
50°-60°	8881.4	20.3
60°-70°	1027.2	2.3
70°-80°	198.8	0.5
80°-90°	46.0	0.1
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°	43752.0	100.0
0°-180°	43752.0	100.0

**Coefficient of Utilization**



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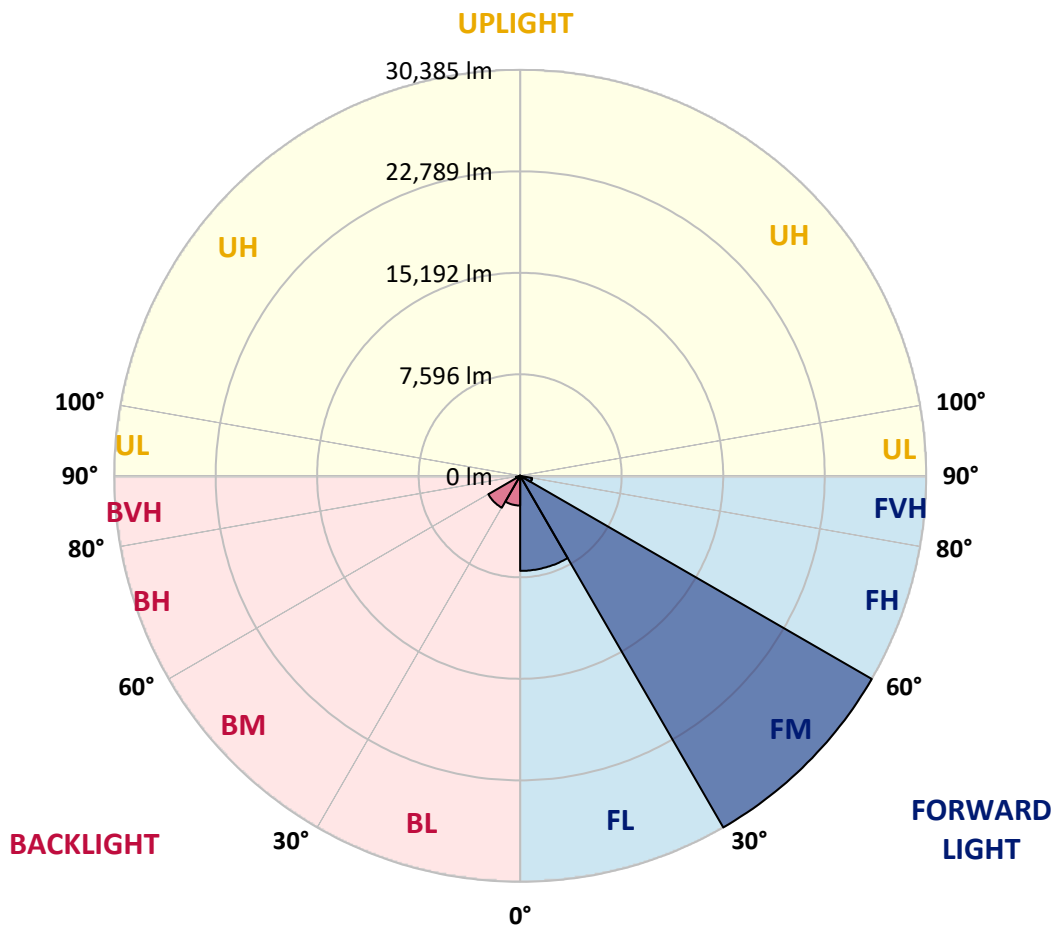
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7113.5	16.3			
FM (30°-60°)	30384.9	69.4			
FH (60°-80°)	904.5	2.1			G1/1800
FVH (80°-90°)	21.9	0.1			G1/100
BL (0°-30°)	2225.3	5.1	B3/2500		
BM (30°-60°)	2756.2	6.3	B3/5000		
BH (60°-80°)	321.5	0.7	B1/500		G1/500
BVH (80°-90°)	24.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	12634.9	12634.9	12634.9	12634.9	12634.9	12634.9	12634.9	12634.9	12634.9	12634.9	12634.9
2.5°	15313.6	14962.8	14994.7	14765.1	14631.2	14414.3	14120.9	14063.5	13744.6	13310.9	12870.8
5°	16691.3	16608.4	16716.8	16385.1	16397.9	16040.7	15351.9	15364.6	14631.2	13923.2	13240.8
7.5°	16780.6	16589.2	16697.6	16991.0	17163.2	17099.5	16710.4	16372.4	15677.2	14637.5	13642.6
10°	15026.6	15390.2	15505.0	15989.7	16678.5	17405.6	17361.0	17380.1	16799.7	15441.2	13987.0
12.5°	13974.2	13731.9	14120.9	14414.3	15453.9	16863.5	17507.7	17648.0	17692.6	16219.3	14331.4
15°	13495.9	13495.9	13559.7	13642.6	14395.2	15696.3	17010.2	17418.4	18381.4	17239.8	14873.5
17.5°	13795.6	13782.9	13872.2	13700.0	13980.6	14982.0	16551.0	17016.5	19153.2	18241.1	15300.9
20°	14707.7	14752.4	14695.0	14197.5	14216.6	14969.2	16040.7	16774.2	19676.2	19108.5	15868.5
22.5°	15976.9	16002.4	15677.2	15135.0	14975.6	15345.5	16334.1	16895.4	20097.1	20148.2	16040.7
25°	17443.9	17341.8	17278.0	16512.7	16028.0	16346.9	16997.4	17322.7	20358.6	21041.1	16531.8
27.5°	19478.5	19274.4	18885.3	18202.9	17845.7	17392.9	17858.4	18394.2	21104.9	22291.2	17067.6
30°	22482.5	22303.9	21544.9	20664.8	19727.2	19280.7	19427.4	19720.8	22450.6	23739.0	17775.5
32.5°	27004.5	26628.2	25531.2	23853.8	22578.2	21347.2	21309.0	21621.5	23656.1	25741.7	18617.4
35°	31985.8	31870.9	30257.3	28528.9	26060.6	24159.9	24191.8	24357.6	25964.9	28369.4	19720.8
37.5°	35295.9	35927.4	34900.5	33044.5	30971.6	28254.6	27565.8	27623.2	29134.8	31481.9	21710.8
40°	37853.5	37317.8	37439.0	37005.3	35589.3	33739.7	32215.4	31915.6	32802.1	34926.0	23688.0
42.5°	36737.4	36762.9	37509.1	38536.0	38886.8	38752.8	37196.6	36628.9	35940.1	37745.1	25569.5
45°	33586.6	34243.6	35213.0	37930.1	40315.4	42554.1	42248.0	41304.0	38108.6	39977.4	26653.7
47.5°	28560.8	28535.2	30123.4	33656.8	38956.9	44199.7	45590.1	44926.7	39645.8	39728.7	26430.5
48°	26704.8	27164.0	28803.1	32961.6	38095.9	43957.3	45889.8	45054.3	39384.3	39397.0	26239.2
50°	19740.0	19657.0	21698.0	26800.4	34026.7	41304.0	44627.0	45277.5	39377.9	37719.6	24899.8
52.5°	10428.1	10785.2	12271.3	16850.7	24057.9	33803.5	39365.1	40379.2	37987.5	34977.0	22973.6
55°	4432.7	4005.4	5147.1	7609.0	13534.2	22584.6	28879.7	31137.5	32119.7	30952.5	20097.1
57.5°	1581.7	1728.4	1989.9	2863.7	5689.2	12360.6	17220.6	18974.6	22252.9	22712.1	13693.6
60°	1014.1	1033.2	1116.2	1313.9	2136.6	4764.4	8170.2	9567.0	11053.1	11410.3	6390.8
62.5°	784.5	790.9	829.1	861.0	1014.1	1849.6	3067.8	3635.5	3775.8	3246.4	1677.4
65°	656.9	663.3	676.1	676.1	720.7	867.4	1071.5	1179.9	1148.0	1135.3	950.3
67.5°	503.9	516.6	542.1	542.1	567.6	529.4	593.2	631.4	714.3	867.4	810.0
70°	395.4	401.8	420.9	433.7	433.7	382.7	427.3	465.6	523.0	644.2	637.8
72.5°	306.1	318.9	331.7	331.7	312.5	261.5	306.1	338.0	376.3	446.5	433.7
75°	236.0	236.0	242.4	197.7	153.1	133.9	185.0	223.2	280.6	293.4	242.4
77.5°	63.8	70.2	63.8	57.4	63.8	95.7	121.2	140.3	178.6	178.6	159.5
80°	0.0	6.4	19.1	38.3	63.8	89.3	108.4	121.2	140.3	153.1	146.7
82.5°	0.0	6.4	19.1	38.3	57.4	70.2	95.7	102.0	114.8	133.9	133.9
85°	0.0	6.4	12.8	25.5	38.3	44.6	44.6	38.3	38.3	31.9	25.5
87.5°	0.0	0.0	6.4	12.8	12.8	19.1	19.1	19.1	19.1	19.1	19.1
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°	12634.9	12634.9	12634.9	12634.9	12634.9	12634.9	12634.9	12634.9	12634.9	12634.9	12634.9
2.5°	12698.6	12500.9	12201.1	11729.2	11276.3	10982.9	10702.3	10389.8	10217.6	10204.8	10109.2
5°	12851.7	12405.2	11690.9	10880.9	10013.5	9267.3	8514.7	8023.5	7583.5	7341.1	7296.5
7.5°	12934.6	12354.2	11199.8	9841.3	8361.6	7143.4	6301.5	5682.8	5440.4	5261.9	5255.5
10°	13106.8	12264.9	10466.3	8463.6	6633.1	5402.2	4821.8	4541.1	4407.2	4356.2	4279.6
12.5°	13234.4	12099.1	9713.7	7047.7	5242.7	4477.4	4222.2	4158.5	4164.8	4190.4	4158.5
15°	13413.0	11952.4	8699.6	5784.9	4400.8	4030.9	4030.9	4043.7	4133.0	4145.7	4139.3
17.5°	13400.2	11665.4	7653.6	4764.4	3890.6	3839.6	3858.7	3979.9	4037.3	4056.4	4011.8
20°	13553.3	11397.5	6575.7	4069.2	3603.6	3680.1	3807.7	3839.6	3909.7	3922.5	3871.5
22.5°	13508.6	10727.8	5574.4	3520.7	3386.7	3533.4	3661.0	3699.2	3680.1	3641.8	3635.5
25°	13425.7	10153.8	4656.0	3157.1	3227.3	3386.7	3507.9	3437.8	3399.5	3405.9	3412.2
27.5°	13279.0	9426.7	3897.0	2902.0	3010.4	3246.4	3240.0	3214.5	3252.8	3220.9	3252.8
30°	13253.5	8699.6	3271.9	2672.4	2851.0	3023.2	3035.9	3080.6	3125.2	3067.8	3125.2
32.5°	13291.8	7902.4	2825.5	2532.1	2755.3	2761.7	2902.0	2946.6	2914.8	2787.2	2799.9
35°	13585.2	7290.1	2500.2	2455.5	2602.2	2608.6	2742.5	2685.1	2544.8	2468.3	2512.9
37.5°	14203.8	6779.8	2347.1	2385.4	2398.1	2481.0	2487.4	2372.6	2385.4	2379.0	2404.5
40°	14994.7	6390.8	2238.7	2321.6	2308.8	2366.2	2136.6	2200.4	2257.8	2277.0	2289.7
42.5°	15536.8	6110.1	2168.5	2219.5	2194.0	2092.0	1964.4	2028.2	2072.9	2143.0	2155.8
45°	15779.2	5886.9	2085.6	2041.0	2041.0	1856.0	1805.0	1817.7	1919.8	1996.3	1983.6
47.5°	15383.8	5670.1	1938.9	1805.0	1849.6	1696.6	1639.2	1639.2	1747.6	1843.2	1824.1
48°	15230.7	5580.8	1945.3	1754.0	1785.8	1671.0	1613.6	1600.9	1722.1	1811.4	1811.4
50°	14471.7	5249.1	1779.5	1613.6	1549.9	1537.1	1498.8	1511.6	1588.1	1671.0	1671.0
52.5°	12992.0	4534.8	1505.2	1384.0	1269.2	1345.8	1364.9	1339.4	1377.7	1454.2	1447.8
55°	10842.6	3482.4	1205.4	1148.0	1058.8	1141.7	1179.9	1148.0	1109.8	1167.2	1167.2
57.5°	6945.7	1875.1	963.1	975.8	886.5	969.5	1001.3	924.8	854.7	899.3	892.9
60°	3131.6	1122.5	790.9	771.7	714.3	810.0	861.0	771.7	676.1	708.0	739.8
62.5°	1173.6	797.3	599.5	586.8	574.0	663.3	688.8	618.7	523.0	542.1	548.5
65°	861.0	701.6	478.4	433.7	459.2	523.0	510.2	440.1	376.3	376.3	389.1
67.5°	733.5	612.3	389.1	338.0	338.0	344.4	318.9	280.6	261.5	274.3	287.0
70°	574.0	484.7	306.1	261.5	236.0	210.5	185.0	178.6	159.5	178.6	172.2
72.5°	369.9	325.3	236.0	197.7	178.6	146.7	121.2	114.8	95.7	89.3	89.3
75°	197.7	197.7	185.0	159.5	140.3	114.8	95.7	76.5	51.0	38.3	38.3
77.5°	140.3	153.1	165.8	153.1	127.6	95.7	76.5	51.0	25.5	12.8	12.8
80°	133.9	153.1	165.8	146.7	127.6	95.7	70.2	38.3	19.1	6.4	6.4
82.5°	121.2	140.3	153.1	133.9	114.8	82.9	63.8	38.3	19.1	6.4	6.4
85°	25.5	31.9	38.3	38.3	44.6	57.4	44.6	31.9	12.8	6.4	6.4
87.5°	19.1	19.1	19.1	19.1	19.1	19.1	12.8	12.8	6.4	6.4	6.4
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)