

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: P533466

Luminaire Tested: **GALN-SA8D-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533466  
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-SA8D-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 38518 lumens  
Efficiency: N/A  
Efficacy: 78.1 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

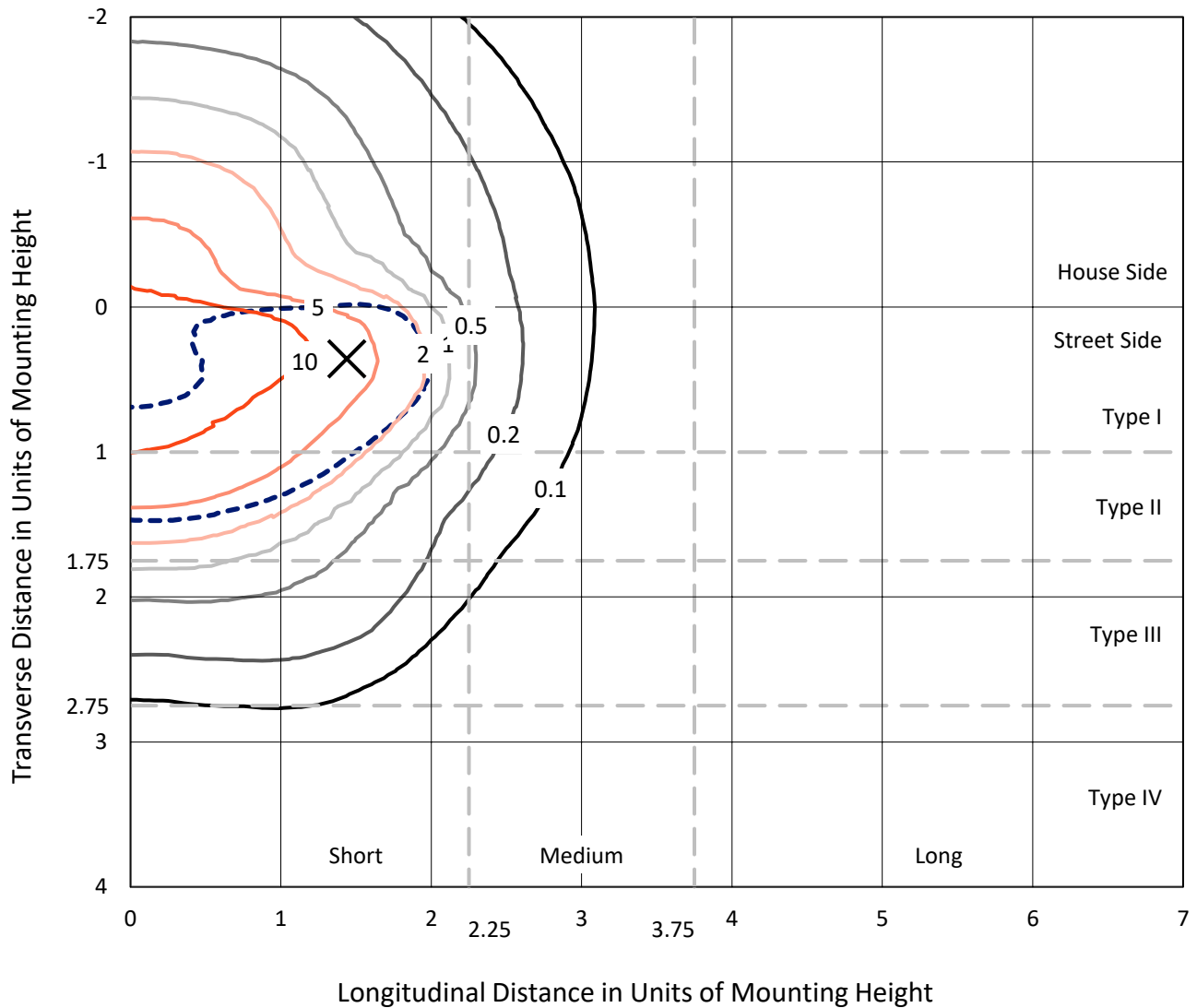
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

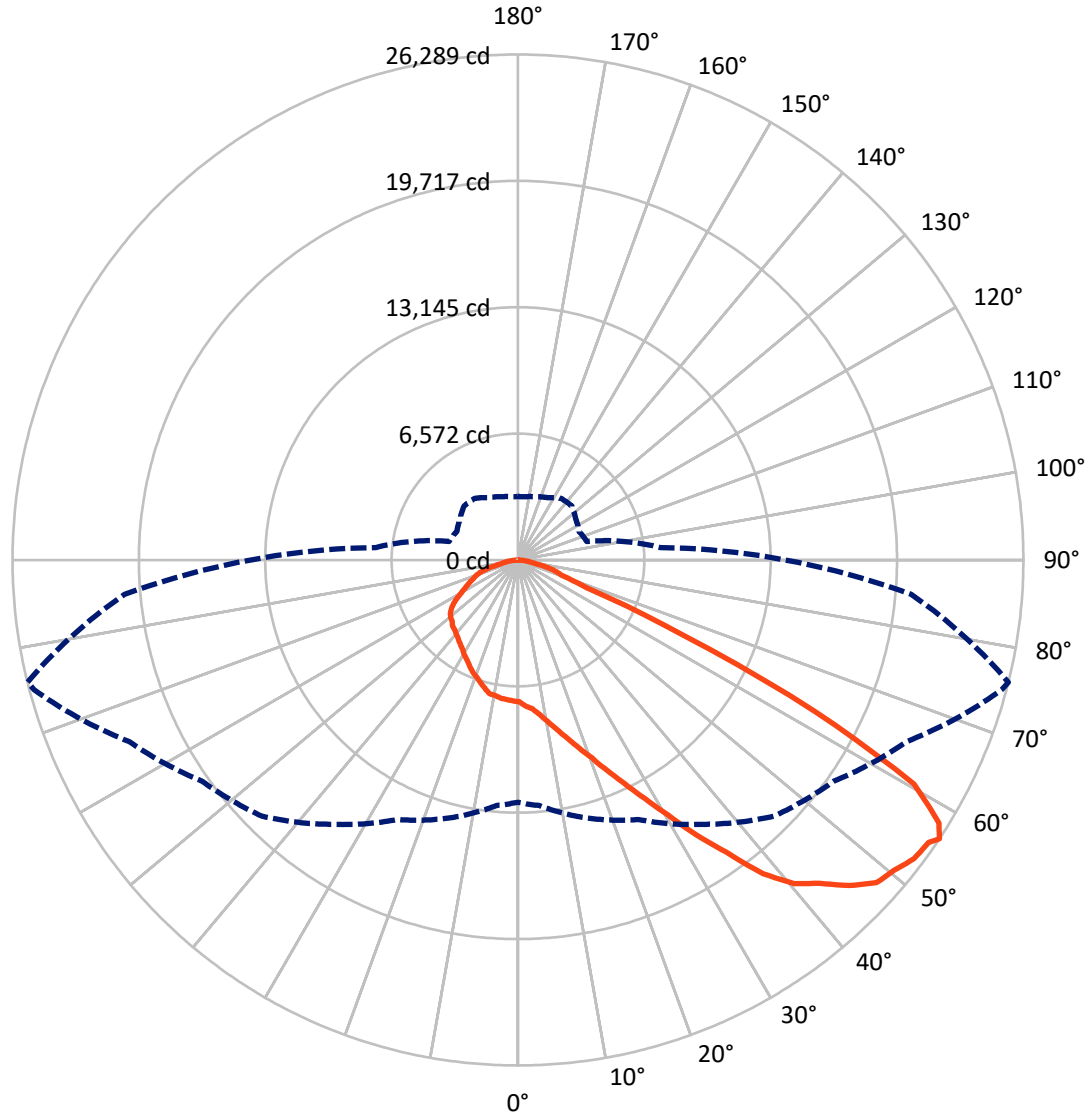
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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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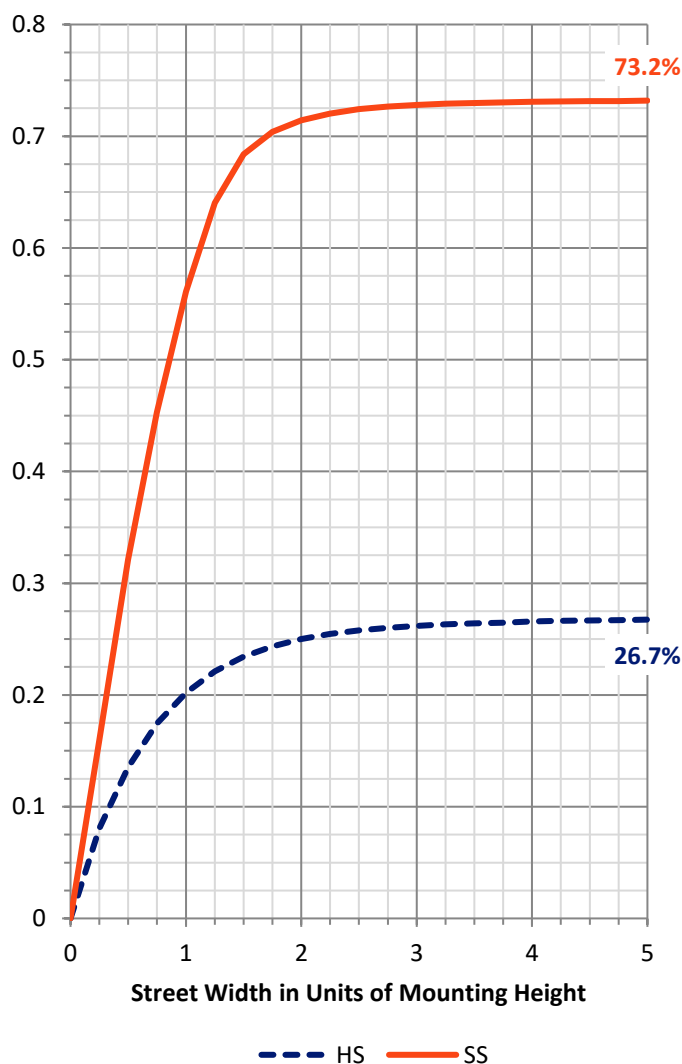
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10356.3	0.0	10356.3
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	28161.7	0.0	28161.7
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	38518.0	0.0	38518.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	730.9	1.9
10°-20°	2295.9	6.0
20°-30°	4015.3	10.4
30°-40°	6286.7	16.3
40°-50°	9145.4	23.7
50°-60°	10051.3	26.1
60°-70°	4486.5	11.6
70°-80°	1295.9	3.4
80°-90°	210.2	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°	38518.0	100.0
0°-180°	38518.0	100.0

**Coefficient of Utilization**



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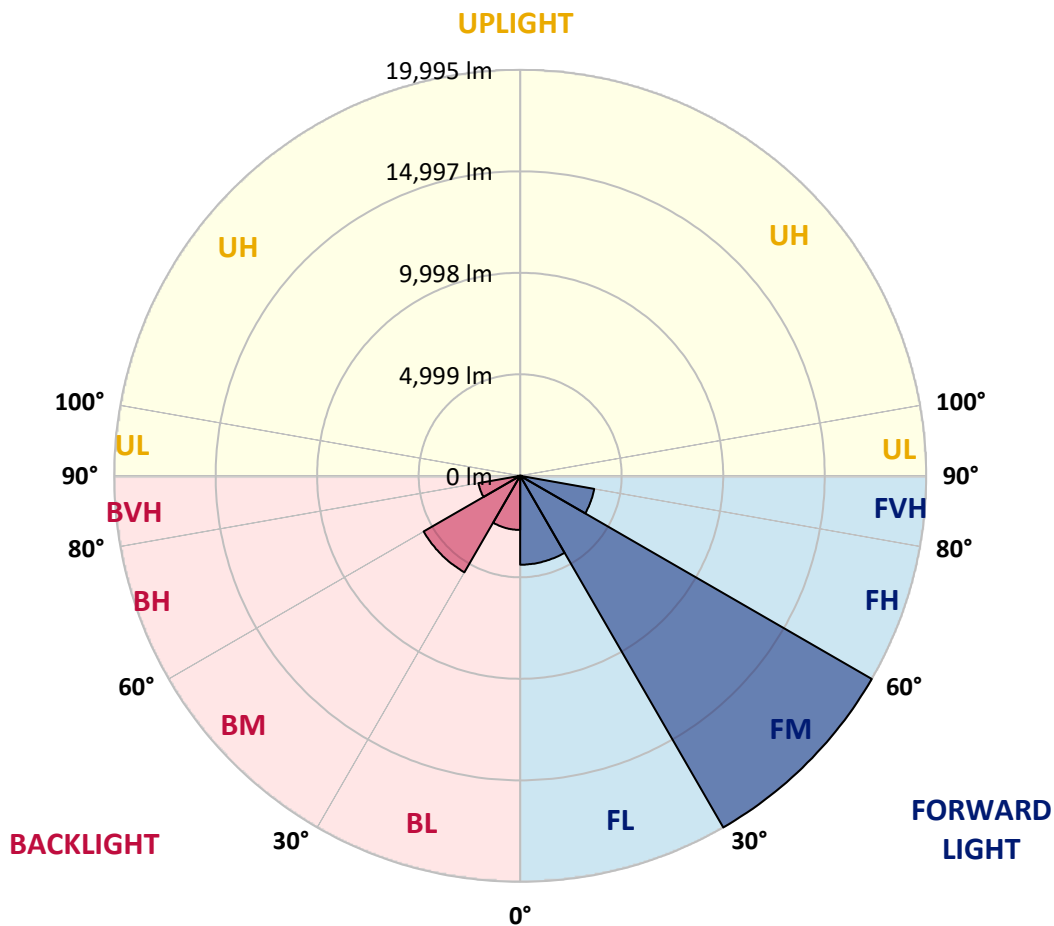
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4377.1	11.4			
FM (30°-60°)	19995.4	51.9			
FH (60°-80°)	3698.6	9.6			G2/5000
FVH (80°-90°)	90.5	0.2			G1/100
BL (0°-30°)	2664.9	6.9	B4/5000		
BM (30°-60°)	5488.0	14.2	B4/8500		
BH (60°-80°)	2083.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	119.7	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°	7369.9	7369.9	7369.9	7369.9	7369.9	7369.9	7369.9	7369.9	7369.9	7369.9	7369.9
2.5°	8118.9	7989.1	7979.1	7944.1	7964.1	7874.2	7779.4	7654.5	7524.7	7604.6	7414.9
5°	8688.1	8513.4	8583.3	8463.4	8478.4	8358.6	8163.8	8019.0	7859.3	7764.4	7629.6
7.5°	8887.8	8902.8	8952.8	8932.8	8832.9	8832.9	8703.1	8448.5	8168.8	8113.9	7889.2
10°	9157.5	9162.5	9107.5	9122.5	9262.3	9197.4	9082.6	8972.7	8613.2	8548.3	8148.9
12.5°	9252.4	9162.5	9252.4	9332.2	9497.0	9586.9	9561.9	9482.0	9097.6	9052.6	8468.4
15°	9267.3	9212.4	9287.3	9467.1	9611.9	9991.3	10181.1	10126.2	9616.9	9621.8	8827.9
17.5°	9197.4	9272.3	9302.3	9457.1	9791.6	10146.1	10695.4	10770.3	10350.8	10285.9	9282.3
20°	9292.3	9237.4	9277.3	9417.1	9861.5	10415.8	11134.8	11629.1	11039.9	10995.0	9751.7
22.5°	9656.8	9581.9	9571.9	9661.8	9981.4	10555.6	11599.1	12487.9	11878.8	11903.7	10335.9
25°	9941.4	9981.4	9946.4	9941.4	10141.1	10765.3	12213.3	13511.5	13017.2	12872.4	11024.9
27.5°	10430.7	10525.6	10455.7	10550.6	10505.6	11079.9	12652.7	14645.0	14245.5	14050.8	11649.1
30°	11109.8	11159.7	11094.8	11094.8	10960.0	11519.3	13052.2	15828.4	15663.6	15398.9	12383.1
32.5°	12003.6	12078.5	11948.7	11873.8	11853.8	12173.4	13771.2	16996.8	17276.4	17051.7	13356.7
35°	13187.0	13142.0	12987.2	12917.3	12647.7	13177.0	14839.7	18339.9	19073.9	18674.5	14535.1
37.5°	14230.5	14160.6	14150.7	13761.2	13826.1	14260.5	15748.5	19358.5	20816.5	20701.7	15778.4
40°	15204.2	15269.1	15374.0	15154.3	15054.4	15533.8	16807.0	20137.5	22169.7	22124.8	16737.1
42.5°	16247.8	16187.9	16372.6	16187.9	16038.1	16717.1	17955.5	20676.7	23358.1	22988.6	17740.7
45°	17760.7	17571.0	17635.9	17650.9	17541.0	17790.7	18429.8	21066.2	24191.9	24152.0	18474.7
47.5°	19024.0	19029.0	18919.1	18834.3	18499.7	18749.4	18959.1	21310.9	25150.6	25085.7	18759.4
50°	19493.4	19428.4	19748.0	19932.8	19952.7	19443.4	19373.5	21445.7	25654.9	25370.3	19044.0
52.5°	17805.7	17865.6	18369.9	19468.4	20102.5	20157.4	19857.9	21725.3	25859.6	25799.7	19273.7
55°	14330.4	14620.0	15448.9	16717.1	18220.1	19872.8	20382.1	22014.9	25969.5	25919.6	20292.3
56°	12597.8	12822.5	13901.0	14894.6	16782.1	18839.2	20052.6	22324.5	26054.4	26289.1	20531.9
57.5°	10141.1	10400.8	11174.7	12303.2	14530.1	16871.9	19143.8	21945.0	25724.8	25814.7	20706.7
60°	6341.3	6366.3	7295.0	8039.0	9606.9	11893.7	14610.0	19093.9	23807.5	23677.6	18599.6
62.5°	4159.3	4164.3	5008.2	5617.3	6331.3	6855.6	8598.2	12662.7	17566.0	17336.3	13241.9
65°	2921.0	2985.9	3640.0	4453.9	4743.5	4468.9	4414.0	6675.9	9811.6	9482.0	7115.3
67.5°	2137.1	2142.1	2721.3	3595.1	4014.5	3400.4	2761.2	3260.5	3884.7	3874.7	3295.5
70°	1413.1	1473.0	1917.4	2686.3	3165.7	2731.3	2256.9	2331.8	2471.6	2471.6	2451.6
72.5°	823.9	878.8	1173.4	1702.7	1777.6	1707.7	1787.6	1997.3	2087.1	2082.2	2057.2
75°	469.4	494.3	559.2	709.0	883.8	1043.6	1313.2	1512.9	1602.8	1657.7	1592.8
77.5°	274.6	289.6	329.5	404.4	459.4	564.2	714.0	853.8	973.7	958.7	968.7
80°	144.8	144.8	184.7	239.7	319.6	399.5	474.4	554.2	619.2	634.1	649.1
82.5°	84.9	89.9	119.8	174.8	229.7	284.6	364.5	419.4	479.3	484.3	494.3
85°	44.9	49.9	74.9	114.8	154.8	174.8	179.8	169.8	184.7	174.8	199.7
87.5°	15.0	15.0	25.0	20.0	20.0	25.0	30.0	30.0	39.9	39.9	39.9
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°	7369.9	7369.9	7369.9	7369.9	7369.9	7369.9	7369.9	7369.9	7369.9	7369.9	7369.9
2.5°	7409.9	7409.9	7325.0	7165.2	7140.2	7075.3	7015.4	7010.4	6965.5	6925.5	6905.6
5°	7549.7	7394.9	7270.1	7125.3	6955.5	6875.6	6785.7	6685.9	6645.9	6685.9	6680.9
7.5°	7709.5	7579.6	7205.1	6935.5	6740.8	6660.9	6561.0	6456.2	6466.2	6466.2	6396.3
10°	7864.2	7689.5	7090.3	6745.8	6461.2	6401.2	6346.3	6386.3	6436.2	6446.2	6401.2
12.5°	8123.9	7729.4	7035.4	6556.0	6376.3	6246.5	6281.4	6391.3	6496.1	6466.2	6501.1
15°	8318.6	7764.4	6785.7	6361.3	6136.6	6196.5	6321.4	6396.3	6571.0	6551.0	6586.0
17.5°	8508.4	7784.4	6541.1	6101.7	6006.8	6171.6	6266.4	6481.1	6536.1	6655.9	6700.8
20°	8897.8	7824.3	6291.4	5941.9	5911.9	6101.7	6266.4	6366.3	6486.1	6591.0	6591.0
22.5°	9097.6	7804.3	6126.6	5732.2	5827.0	5946.9	6096.7	6266.4	6266.4	6366.3	6371.3
25°	9347.2	7724.4	5867.0	5632.3	5702.2	5817.0	5986.8	5926.9	5991.8	5991.8	6071.7
27.5°	9631.8	7554.7	5642.3	5452.5	5592.4	5717.2	5742.2	5702.2	5627.3	5617.3	5587.4
30°	9861.5	7345.0	5477.5	5392.6	5507.5	5577.4	5497.5	5412.6	5282.8	5272.8	5202.9
32.5°	10176.1	7085.3	5272.8	5242.8	5372.7	5377.6	5352.7	5222.9	5033.1	4953.2	4873.3
35°	10705.4	6935.5	5118.0	5162.9	5202.9	5187.9	5143.0	5003.2	4813.4	4778.5	4748.5
37.5°	11094.8	6825.7	4958.2	5013.1	5048.1	5068.1	4933.3	4778.5	4783.5	4713.6	4693.6
40°	11534.2	6755.8	4828.4	4853.4	4858.4	4923.3	4758.5	4683.6	4718.5	4673.6	4703.6
42.5°	12098.5	6775.7	4693.6	4673.6	4768.5	4743.5	4663.6	4563.8	4583.7	4448.9	4468.9
45°	12398.1	6910.6	4613.7	4523.8	4628.7	4623.7	4518.8	4424.0	4304.1	4044.5	4054.5
47.5°	12597.8	6945.5	4424.0	4364.0	4473.9	4538.8	4419.0	4199.3	4029.5	3844.7	3799.8
50°	12802.5	7010.4	4334.1	4209.2	4254.2	4409.0	4259.2	4049.5	3884.7	3719.9	3744.9
52.5°	12982.3	7135.2	4159.3	3974.6	4054.5	4224.2	4144.3	3889.7	3709.9	3575.1	3535.2
55°	13781.2	7414.9	3864.7	3625.0	3814.8	4029.5	3984.6	3675.0	3480.2	3410.3	3400.4
56°	13906.0	7424.8	3709.9	3505.2	3680.0	3964.6	3909.7	3580.1	3405.3	3295.5	3300.5
57.5°	13926.0	7305.0	3490.2	3395.4	3545.2	3869.7	3799.8	3505.2	3265.5	3165.7	3135.7
60°	12253.2	5702.2	3215.6	3155.7	3330.4	3580.1	3555.1	3300.5	3030.9	2916.0	2970.9
62.5°	8353.6	4179.3	3000.9	2990.9	3080.8	3325.5	3260.5	3030.9	2806.2	2731.3	2696.3
65°	4863.4	3170.7	2791.2	2751.2	2826.1	2956.0	3000.9	2761.2	2526.5	2476.6	2461.6
67.5°	2871.1	2621.4	2521.6	2456.6	2431.7	2511.6	2546.5	2406.7	2172.0	2102.1	2162.0
70°	2401.7	2331.8	2336.8	2227.0	2167.0	2112.1	2082.2	1957.3	1762.6	1672.7	1647.7
72.5°	2072.2	2042.2	2022.2	1922.4	1867.4	1742.6	1612.8	1488.0	1343.2	1268.3	1273.3
75°	1582.8	1572.8	1582.8	1532.9	1438.0	1338.2	1218.3	1058.6	948.7	853.8	873.8
77.5°	943.7	973.7	988.6	968.7	928.7	838.9	764.0	659.1	554.2	479.3	469.4
80°	649.1	674.1	699.0	674.1	634.1	569.2	489.3	409.4	334.5	294.6	284.6
82.5°	494.3	519.3	534.3	509.3	459.4	389.5	334.5	279.6	219.7	179.8	169.8
85°	179.8	204.7	199.7	239.7	259.6	249.7	214.7	164.8	124.8	89.9	84.9
87.5°	49.9	44.9	49.9	49.9	49.9	44.9	39.9	39.9	39.9	25.0	20.0
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)