

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: P531925

Luminaire Tested: **GALN-SA7B-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-730-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21108 lumens  
Efficiency: N/A  
Efficacy: 73.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

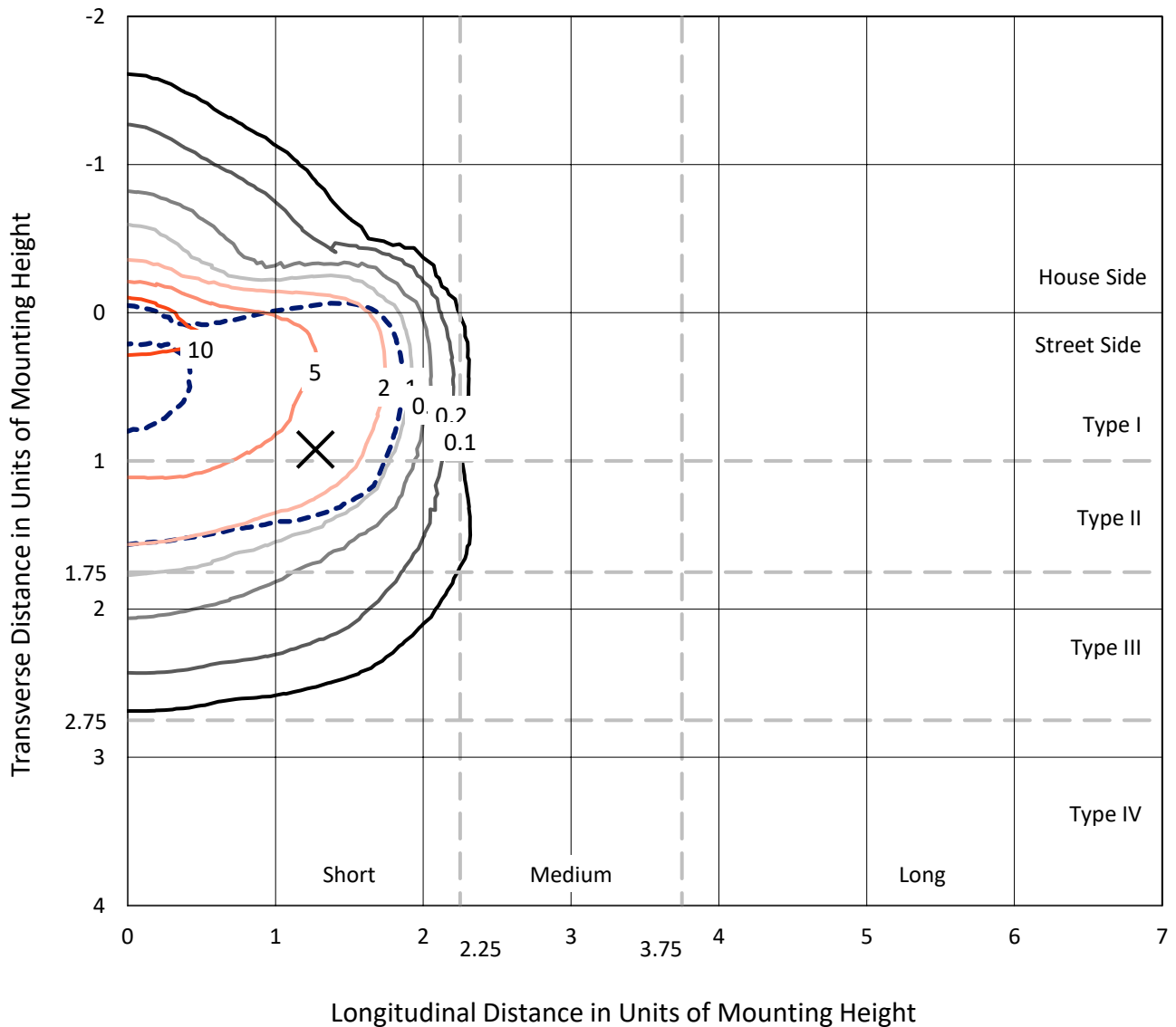
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

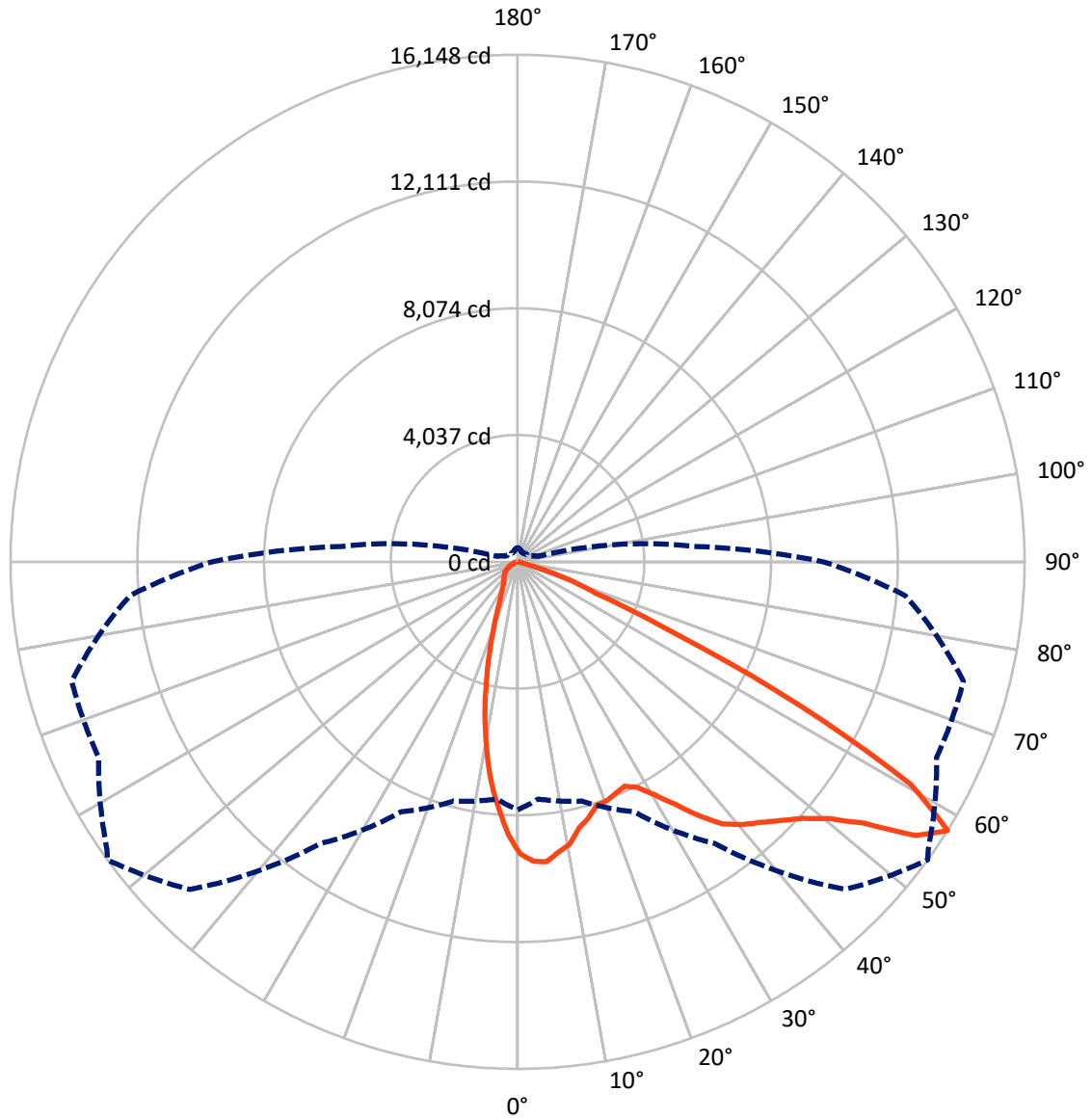
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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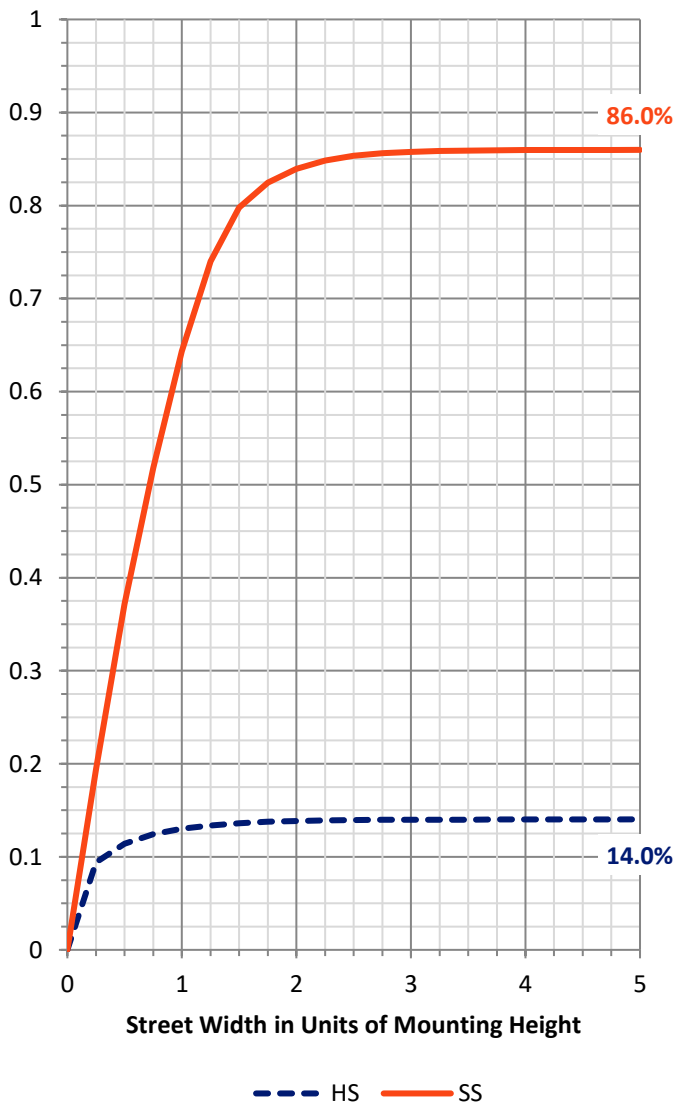
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2982.9	0.0	2982.9
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	18125.1	0.0	18125.1
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	21108.0	0.0	21108.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	778.1	3.7
10°-20°	1661.2	7.9
20°-30°	2201.5	10.4
30°-40°	3199.4	15.2
40°-50°	4744.2	22.5
50°-60°	5932.4	28.1
60°-70°	2340.1	11.1
70°-80°	233.0	1.1
80°-90°	18.1	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°	21108.0	100.0
0°-180°	21108.0	100.0

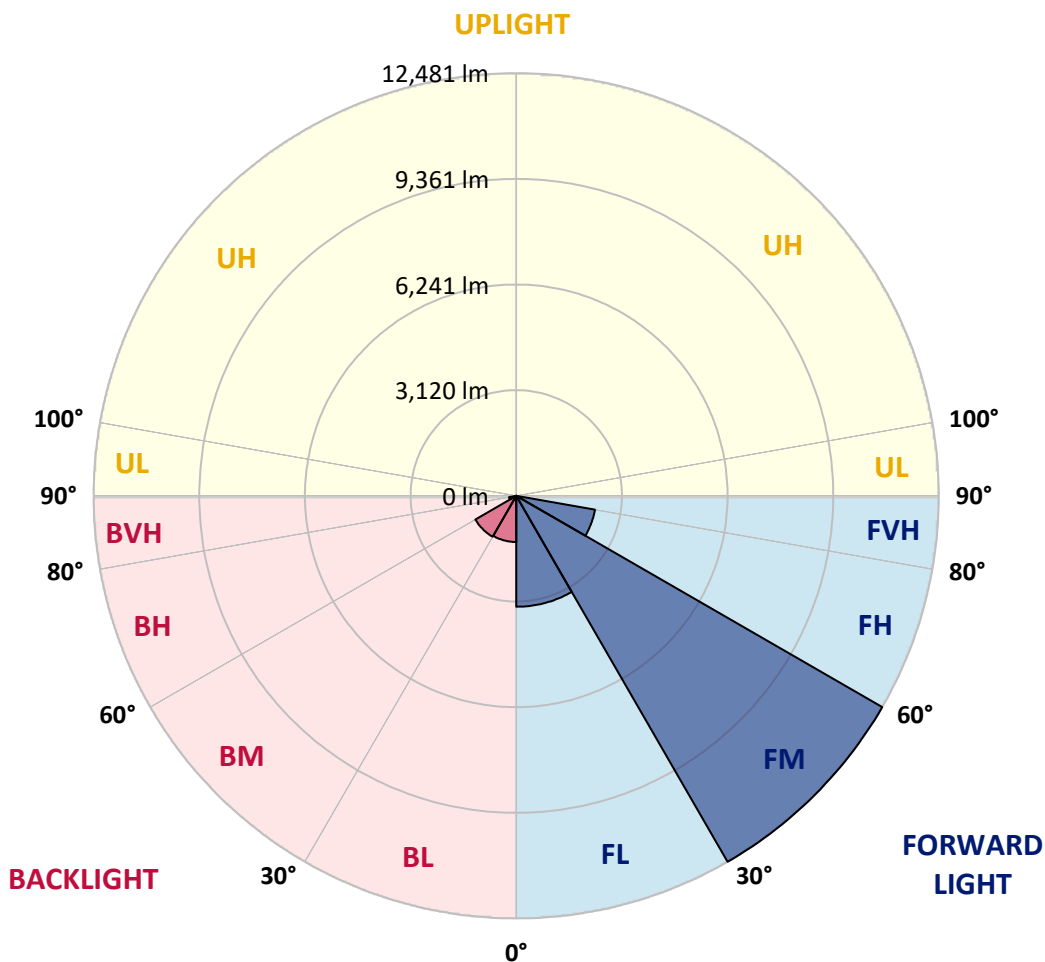


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3276.6	15.5			
FM (30°-60°)	12481.1	59.1			
FH (60°-80°)	2359.2	11.2			G2/5000
FVH (80°-90°)	8.2	0.0			G0/10
BL (0°-30°)	1364.2	6.5	B3/2500		
BM (30°-60°)	1394.9	6.6	B2/2500		
BH (60°-80°)	213.9	1.0	B1/500		G1/500
BVH (80°-90°)	9.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9298.4	9298.4	9298.4	9298.4	9298.4	9298.4	9298.4	9298.4	9298.4	9298.4	9298.4
2.5°	9840.0	9738.0	9745.8	9710.5	9663.4	9698.7	9545.6	9581.0	9577.0	9369.0	9231.6
5°	9592.7	9702.6	9588.8	9683.0	9592.7	9690.9	9596.7	9526.0	9412.2	9259.1	9004.0
7.5°	9172.8	9066.8	9098.2	9215.9	9235.6	9455.4	9337.6	9427.9	9380.8	9078.6	8729.2
10°	8328.9	8305.3	8462.3	8619.3	8811.7	9047.2	9137.4	9086.4	9051.1	8937.3	8470.2
12.5°	7681.3	7748.0	7744.1	8003.1	8328.9	8462.3	8697.8	8690.0	8886.2	8674.3	8226.8
15°	7065.0	7100.4	7265.2	7426.1	7787.2	8168.0	8458.4	8497.7	8733.2	8584.0	8038.4
17.5°	6688.2	6637.2	6766.7	6959.0	7328.0	7826.5	8148.3	8242.5	8564.4	8533.0	7822.6
20°	6315.3	6315.3	6421.3	6649.0	6986.5	7547.8	8120.9	8093.4	8564.4	8474.1	7591.0
22.5°	6189.7	6252.5	6280.0	6452.7	6853.1	7335.9	8003.1	8054.1	8631.1	8446.6	7488.9
25°	6362.4	6280.0	6287.9	6425.2	6802.0	7233.8	7916.8	8030.6	8752.8	8584.0	7406.5
27.5°	6389.9	6472.3	6495.9	6590.1	6841.3	7265.2	8132.6	8364.2	9055.0	8905.9	7430.1
30°	6629.3	6711.8	6707.8	6868.8	7041.5	7520.3	8615.4	8662.5	9679.1	9310.1	7575.3
32.5°	6919.8	7006.1	7033.6	7222.0	7359.4	7987.4	9204.2	9325.8	10279.6	9946.0	7956.0
35°	7280.9	7249.5	7375.1	7563.5	7857.9	8670.4	9922.4	10126.5	10927.2	10770.2	8348.5
37.5°	7732.3	7693.0	7814.7	8120.9	8521.2	9478.9	10585.8	10719.2	11398.2	11535.6	9074.6
40°	8050.2	8065.9	8434.9	8847.0	9270.9	10248.2	11005.7	11135.3	11727.9	12250.0	9624.1
42.5°	8580.1	8678.2	9121.7	9624.1	10067.7	10825.2	11347.2	11472.8	11881.0	12823.0	10366.0
45°	9349.4	9306.2	9796.8	10358.1	10848.7	11425.7	11751.5	11708.3	11971.3	13392.1	10833.0
47.5°	10338.5	10346.3	10672.1	11151.0	11661.2	11947.7	12202.9	12049.8	12159.7	13992.7	11457.1
50°	11013.6	11072.5	11335.4	11826.1	12081.2	12520.8	12846.6	12752.4	12717.0	14353.8	11849.6
52.5°	11186.3	11362.9	11504.2	12116.5	12713.1	13407.8	13823.9	14024.1	13396.1	14475.5	12348.1
55°	9883.2	10040.2	10538.7	11378.6	12952.5	14813.0	15386.1	15390.0	14283.1	15017.1	12697.4
57.5°	7901.1	7583.1	7889.3	8780.3	10950.8	14754.1	16147.5	15963.0	14726.7	14699.2	12395.2
60°	5463.6	5385.1	5404.7	5758.0	7579.2	11735.8	14389.1	14628.5	13560.9	12740.6	9812.5
62.5°	4329.3	4262.6	4176.2	4137.0	4706.1	7312.3	10150.1	10487.6	9482.8	8262.2	5816.9
65°	3391.2	3352.0	3363.7	3520.7	3516.8	4148.7	5550.0	5412.6	4333.2	3202.8	1829.1
67.5°	2288.3	2347.2	2394.3	2869.2	3112.5	2888.8	2680.8	2602.3	1409.1	592.7	404.3
70°	1287.4	1295.3	1346.3	1793.7	2362.9	2241.2	1848.7	1848.7	702.6	215.9	231.6
72.5°	702.6	679.0	631.9	773.2	1051.9	1067.6	824.3	718.3	208.0	141.3	129.5
75°	341.5	337.6	290.5	239.4	227.7	188.4	145.2	133.5	94.2	90.3	78.5
77.5°	70.7	66.7	35.3	35.3	39.3	43.2	55.0	55.0	66.7	66.7	55.0
80°	0.0	0.0	3.9	15.7	27.5	39.3	47.1	47.1	55.0	55.0	43.2
82.5°	0.0	0.0	3.9	11.8	23.6	35.3	43.2	47.1	55.0	58.9	47.1
85°	0.0	0.0	0.0	7.9	19.6	27.5	23.6	23.6	19.6	15.7	7.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	9298.4	9298.4	9298.4	9298.4	9298.4	9298.4	9298.4	9298.4	9298.4	9298.4	9298.4
2.5°	9161.0	9153.1	8972.6	8870.5	8686.1	8525.1	8395.6	8301.4	8301.4	8242.5	8187.6
5°	8901.9	8835.2	8450.6	8203.3	7854.0	7594.9	7418.3	7280.9	7065.0	7123.9	6892.3
7.5°	8580.1	8411.3	7901.1	7524.3	7041.5	6672.5	6295.7	5962.1	5640.2	5495.0	5573.5
10°	8234.7	7940.3	7253.4	6656.8	6056.3	5381.2	4941.6	4407.8	4078.1	4058.5	3972.1
12.5°	7869.7	7536.0	6700.0	5875.7	5086.8	4274.3	3603.2	3104.7	2881.0	2633.7	2680.8
15°	7594.9	7100.4	6083.8	5090.7	4042.8	3222.4	2547.3	2162.7	1950.7	1891.9	1872.2
17.5°	7296.6	6766.7	5455.8	4254.7	3171.4	2319.7	1833.0	1648.5	1566.1	1566.1	1554.3
20°	6986.5	6389.9	4831.7	3477.6	2378.6	1730.9	1468.0	1409.1	1405.2	1401.2	1401.2
22.5°	6782.4	5958.2	4266.5	2763.2	1793.7	1385.5	1275.6	1252.1	1267.8	1314.9	1314.9
25°	6566.5	5542.1	3642.4	2131.3	1389.5	1189.3	1126.5	1142.2	1181.4	1224.6	1208.9
27.5°	6346.7	5271.3	3053.7	1672.1	1138.3	1040.1	1016.6	1051.9	1095.1	1134.3	1122.6
30°	6295.7	4980.8	2496.3	1267.8	977.3	906.7	922.4	953.8	997.0	1012.7	1028.4
32.5°	6374.2	4753.2	2044.9	1040.1	851.7	832.1	832.1	847.8	875.3	910.6	898.8
35°	6597.9	4623.7	1617.1	902.8	781.1	761.5	757.5	773.2	788.9	800.7	788.9
37.5°	6939.4	4521.6	1322.7	800.7	734.0	702.6	694.7	690.8	706.5	710.4	718.3
40°	7375.1	4576.6	1122.6	737.9	686.9	651.6	628.0	628.0	628.0	639.8	643.7
42.5°	7846.1	4651.1	969.5	702.6	643.7	600.5	577.0	569.1	577.0	592.7	588.8
45°	8340.7	4796.4	871.4	647.6	604.5	549.5	518.1	510.3	529.9	561.3	557.4
47.5°	8803.8	5004.4	796.8	612.3	565.2	514.2	474.9	467.1	502.4	545.6	549.5
50°	9267.0	5365.5	769.3	584.8	537.7	478.9	443.5	435.7	474.9	529.9	541.7
52.5°	9800.8	5754.1	749.7	549.5	506.3	451.4	412.1	404.3	447.5	518.1	522.0
55°	10150.1	6083.8	734.0	486.7	447.5	408.2	376.8	372.9	420.0	482.8	498.5
57.5°	9741.9	5624.5	679.0	423.9	380.7	361.1	333.6	333.6	372.9	431.8	443.5
60°	7386.9	3701.3	482.8	341.5	321.9	310.1	298.3	298.3	329.7	372.9	376.8
62.5°	4325.4	1993.9	310.1	274.8	274.8	263.0	243.4	243.4	274.8	298.3	302.2
65°	1283.5	639.8	251.2	235.5	231.6	212.0	192.3	188.4	212.0	223.7	219.8
67.5°	369.0	294.4	208.0	196.3	192.3	160.9	149.2	145.2	149.2	141.3	137.4
70°	219.8	200.2	160.9	164.9	145.2	117.8	106.0	102.1	94.2	82.4	74.6
72.5°	121.7	121.7	117.8	125.6	102.1	78.5	66.7	55.0	43.2	35.3	31.4
75°	74.6	78.5	82.4	86.4	66.7	51.0	43.2	27.5	15.7	7.9	7.9
77.5°	51.0	55.0	58.9	62.8	55.0	47.1	35.3	19.6	3.9	0.0	0.0
80°	39.3	43.2	51.0	55.0	58.9	62.8	47.1	19.6	3.9	0.0	0.0
82.5°	43.2	47.1	58.9	55.0	55.0	55.0	43.2	19.6	3.9	0.0	0.0
85°	7.9	11.8	19.6	19.6	27.5	35.3	27.5	7.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)