

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: P532315

Luminaire Tested: **GALN-SA7C-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532315  
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-SA7C-830-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1050mA 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: 22756 lumens  
Efficiency: N/A  
Efficacy: 60.4 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

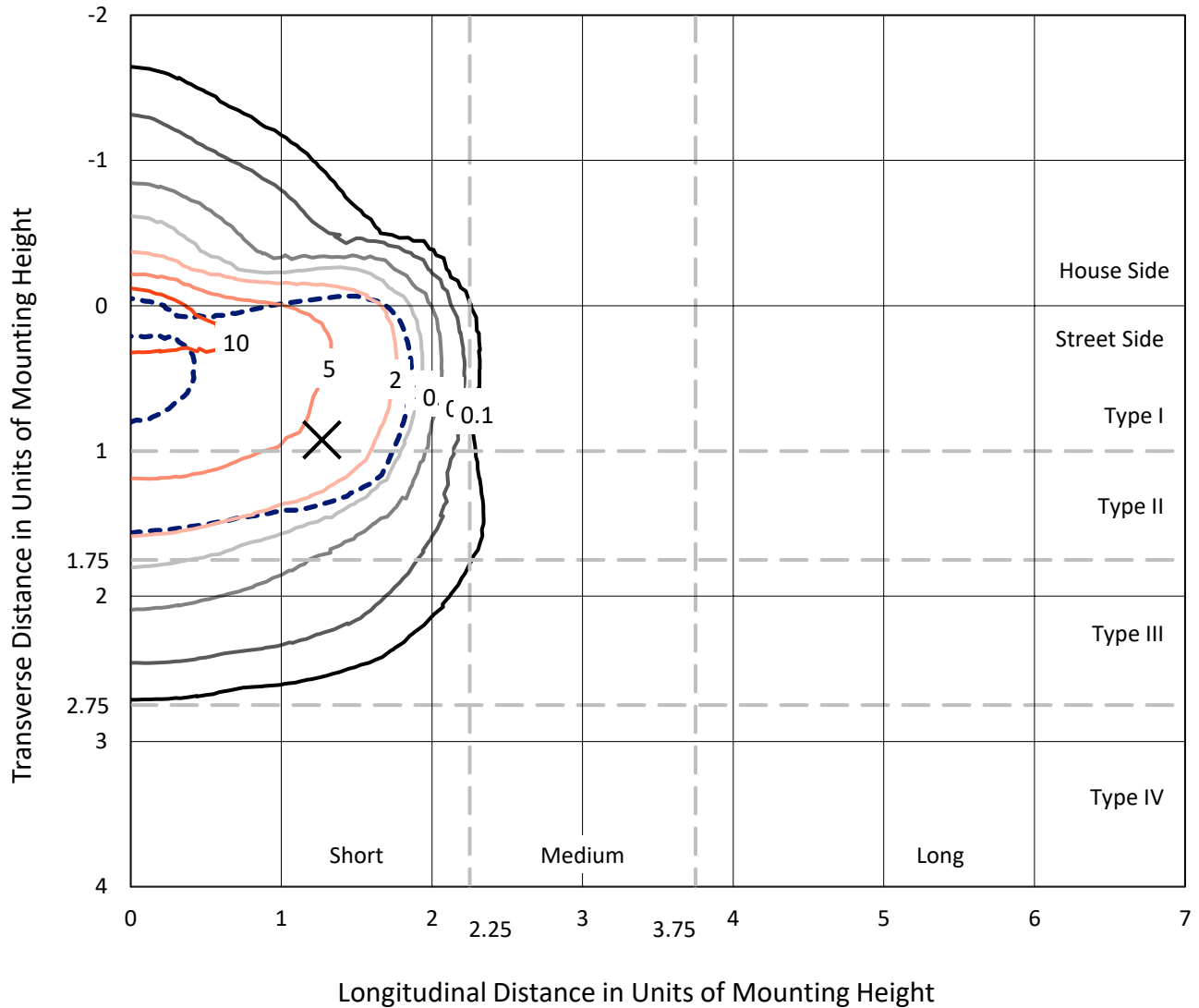
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

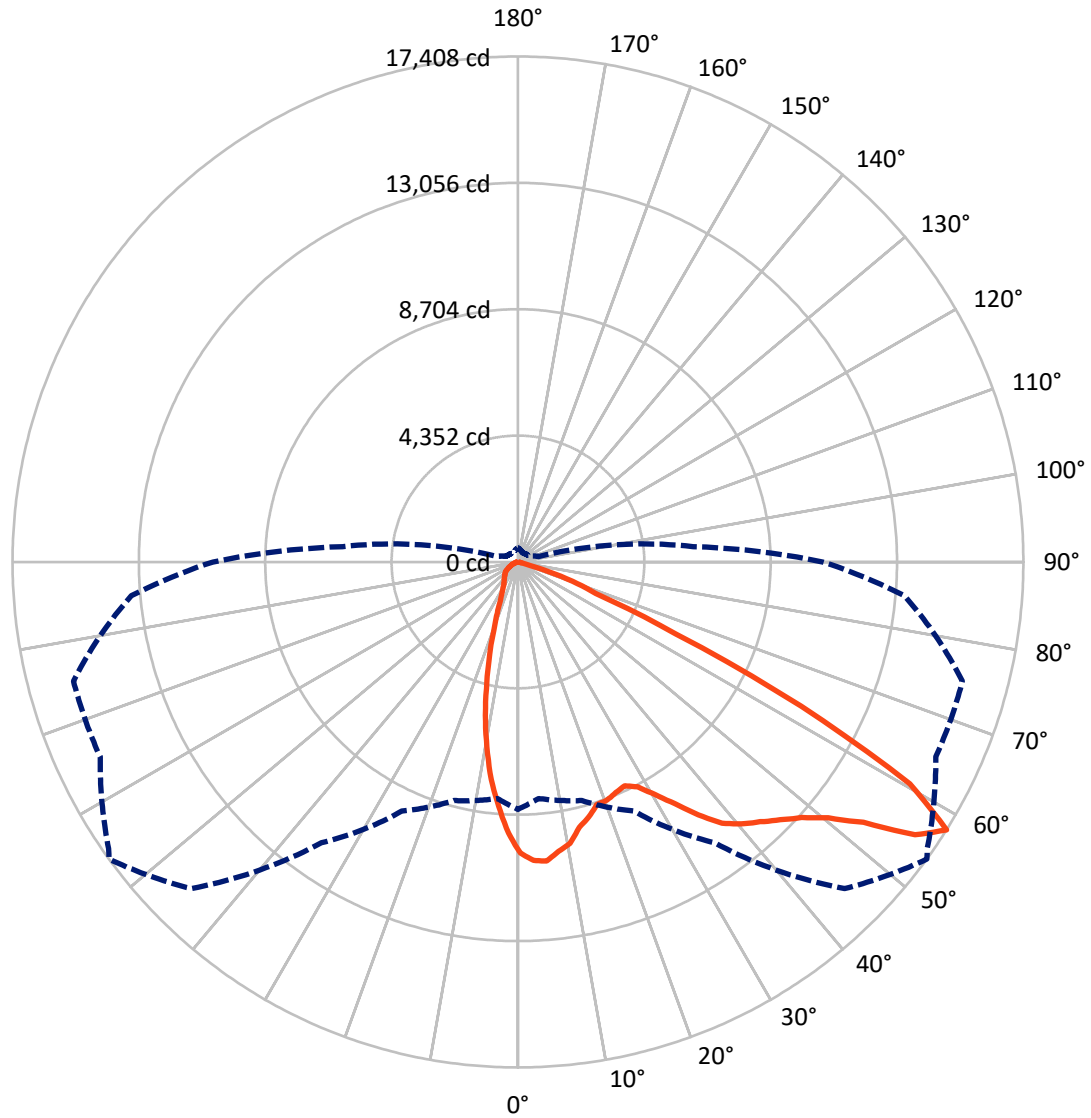
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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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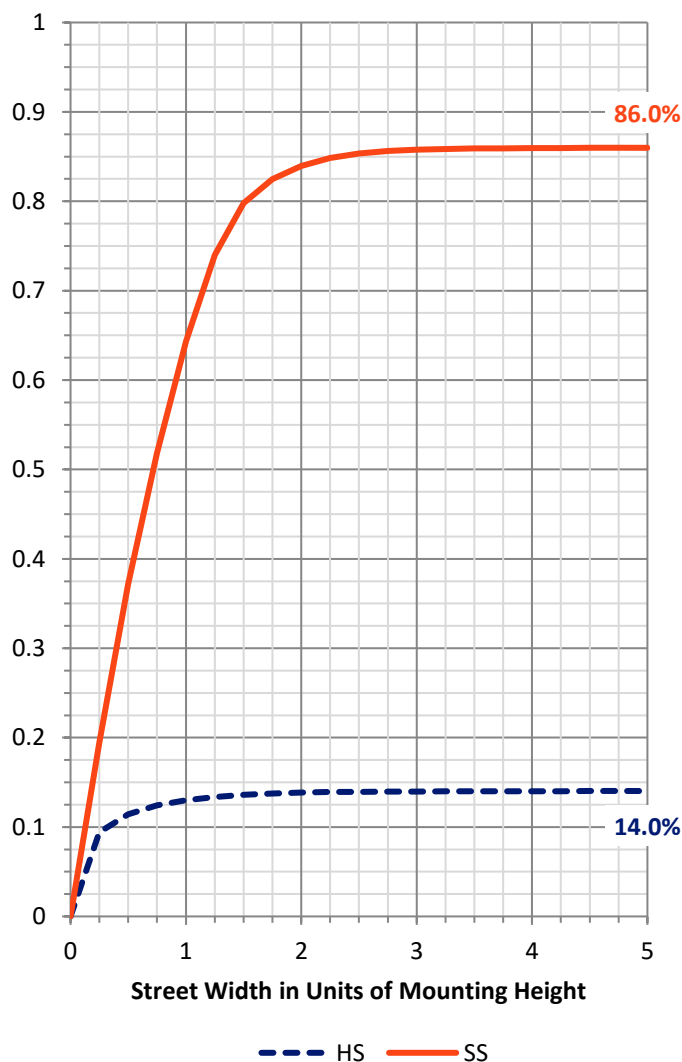
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3215.8	0.0	3215.8
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	19540.2	0.0	19540.2
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	22756.0	0.0	22756.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	838.9	3.7
10°-20°	1790.9	7.9
20°-30°	2373.4	10.4
30°-40°	3449.1	15.2
40°-50°	5114.6	22.5
50°-60°	6395.6	28.1
60°-70°	2522.8	11.1
70°-80°	251.2	1.1
80°-90°	19.5	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°	22756.0	100.0
0°-180°	22756.0	100.0

**Coefficient of Utilization**

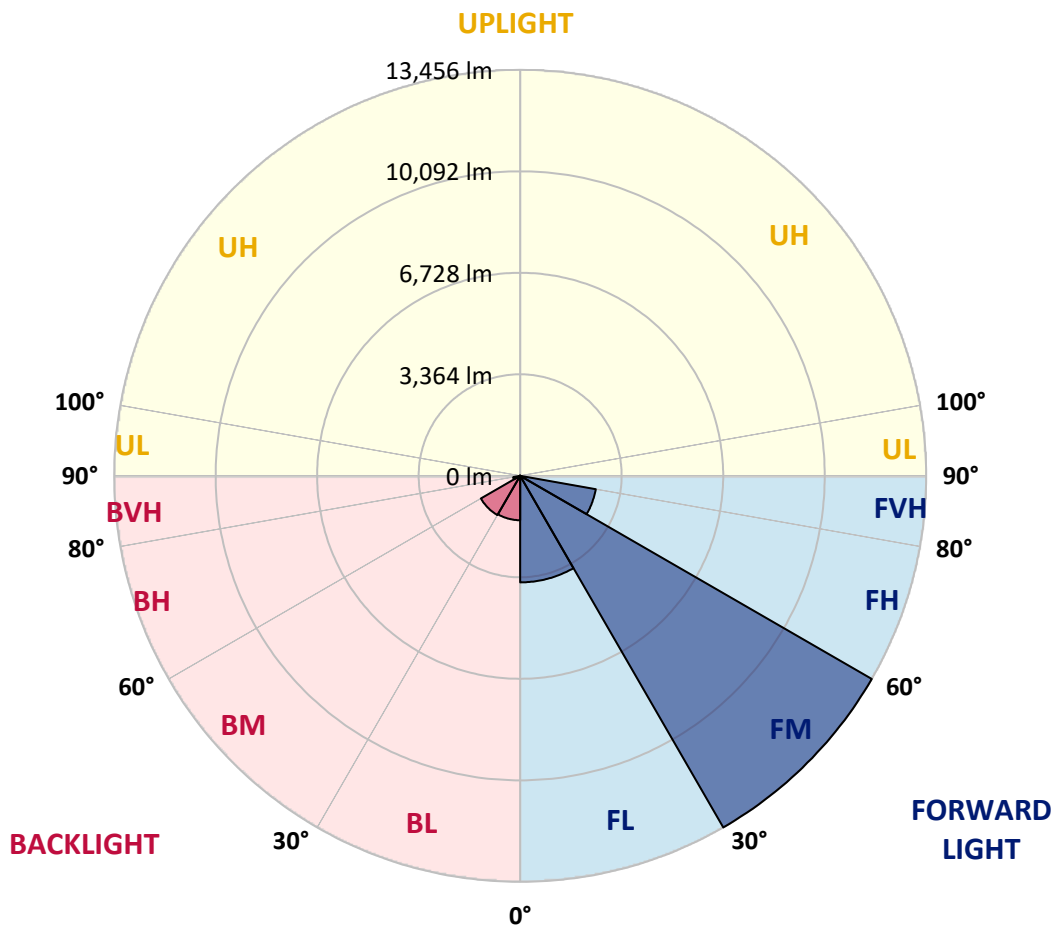


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3532.4	15.5			
FM (30°-60°)	13455.6	59.1			
FH (60°-80°)	2543.4	11.2			G2/5000
FVH (80°-90°)	8.9	0.0			G0/10
BL (0°-30°)	1470.8	6.5	B3/2500		
BM (30°-60°)	1503.8	6.6	B2/2500		
BH (60°-80°)	230.6	1.0	B1/500		G1/500
BVH (80°-90°)	10.7	0.0			G1/100
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°	10024.3	10024.3	10024.3	10024.3	10024.3	10024.3	10024.3	10024.3	10024.3	10024.3	10024.3
2.5°	10608.3	10498.2	10506.7	10468.6	10417.8	10455.9	10290.9	10329.0	10324.8	10100.5	9952.4
5°	10341.7	10460.2	10337.5	10439.0	10341.7	10447.5	10345.9	10269.7	10147.0	9982.0	9707.0
7.5°	9888.9	9774.7	9808.5	9935.5	9956.6	10193.6	10066.6	10164.0	10113.2	9787.4	9410.8
10°	8979.2	8953.8	9123.0	9292.3	9499.6	9753.5	9850.8	9795.8	9757.7	9635.0	9131.5
12.5°	8281.0	8352.9	8348.7	8627.9	8979.2	9123.0	9376.9	9368.4	9580.0	9351.5	8869.1
15°	7616.6	7654.7	7832.4	8005.9	8395.2	8805.7	9118.8	9161.1	9415.0	9254.2	8666.0
17.5°	7210.4	7155.4	7295.0	7502.4	7900.1	8437.5	8784.5	8886.1	9233.0	9199.2	8433.3
20°	6808.4	6808.4	6922.7	7168.1	7532.0	8137.1	8754.9	8725.3	9233.0	9135.7	8183.6
22.5°	6673.0	6740.7	6770.3	6956.5	7388.1	7908.6	8627.9	8683.0	9305.0	9106.1	8073.6
25°	6859.2	6770.3	6778.8	6926.9	7333.1	7798.6	8534.9	8657.6	9436.2	9254.2	7984.8
27.5°	6888.8	6977.7	7003.1	7104.6	7375.4	7832.4	8767.6	9017.2	9762.0	9601.2	8010.2
30°	7146.9	7235.8	7231.6	7405.1	7591.2	8107.5	9288.1	9338.8	10434.8	10037.0	8166.7
32.5°	7460.1	7553.2	7582.8	7785.9	7934.0	8611.0	9922.8	10053.9	11082.2	10722.5	8577.2
35°	7849.4	7815.5	7950.9	8154.0	8471.4	9347.3	10697.1	10917.2	11780.4	11611.1	9000.3
37.5°	8336.0	8293.7	8424.8	8754.9	9186.5	10219.0	11412.2	11556.1	12288.2	12436.3	9783.1
40°	8678.7	8695.6	9093.4	9537.7	9994.7	11048.3	11865.0	12004.6	12643.6	13206.4	10375.5
42.5°	9250.0	9355.8	9833.9	10375.5	10853.7	11670.4	12233.1	12368.6	12808.6	13824.2	11175.3
45°	10079.3	10032.8	10561.7	11166.8	11695.8	12317.8	12669.0	12622.4	12905.9	14437.7	11678.8
47.5°	11145.7	11154.1	11505.3	12021.6	12571.7	12880.6	13155.6	12990.6	13109.1	15085.1	12351.6
50°	11873.5	11936.9	12220.5	12749.4	13024.4	13498.4	13849.6	13748.0	13709.9	15474.4	12774.8
52.5°	12059.7	12250.1	12402.4	13062.5	13705.7	14454.7	14903.2	15119.0	14442.0	15605.6	13312.2
55°	10654.8	10824.1	11361.5	12267.0	13963.8	15969.5	16587.3	16591.5	15398.3	16189.6	13688.8
57.5°	8517.9	8175.2	8505.2	9465.8	11805.8	15906.1	17408.2	17209.3	15876.4	15846.8	13362.9
60°	5890.2	5805.6	5826.7	6207.5	8170.9	12652.1	15512.5	15770.6	14619.7	13735.3	10578.6
62.5°	4667.3	4595.4	4502.3	4460.0	5073.5	7883.2	10942.6	11306.5	10223.2	8907.2	6271.0
65°	3656.0	3613.7	3626.4	3795.6	3791.4	4472.7	5983.3	5835.2	4671.5	3452.9	1971.9
67.5°	2466.9	2530.4	2581.2	3093.2	3355.5	3114.4	2890.1	2805.5	1519.1	639.0	435.8
70°	1387.9	1396.4	1451.4	1933.8	2547.3	2416.2	1993.0	1993.0	757.4	232.7	249.7
72.5°	757.4	732.0	681.3	833.6	1134.0	1151.0	888.6	774.4	224.3	152.3	139.6
75°	368.1	363.9	313.1	258.1	245.4	203.1	156.6	143.9	101.6	97.3	84.6
77.5°	76.2	71.9	38.1	38.1	42.3	46.5	59.2	59.2	71.9	71.9	59.2
80°	0.0	0.0	4.2	16.9	29.6	42.3	50.8	50.8	59.2	59.2	46.5
82.5°	0.0	0.0	4.2	12.7	25.4	38.1	46.5	50.8	59.2	63.5	50.8
85°	0.0	0.0	0.0	8.5	21.2	29.6	25.4	25.4	21.2	16.9	8.5
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°	10024.3	10024.3	10024.3	10024.3	10024.3	10024.3	10024.3	10024.3	10024.3	10024.3	10024.3
2.5°	9876.2	9867.8	9673.1	9563.1	9364.2	9190.7	9051.1	8949.5	8949.5	8886.1	8826.8
5°	9596.9	9525.0	9110.3	8843.7	8467.1	8187.9	7997.5	7849.4	7616.6	7680.1	7430.4
7.5°	9250.0	9068.0	8517.9	8111.7	7591.2	7193.5	6787.3	6427.6	6080.6	5924.0	6008.7
10°	8877.6	8560.2	7819.7	7176.6	6529.1	5801.3	5327.4	4751.9	4396.5	4375.3	4282.2
12.5°	8484.1	8124.4	7223.1	6334.5	5484.0	4608.1	3884.5	3347.1	3105.9	2839.3	2890.1
15°	8187.9	7654.7	6558.8	5488.2	4358.4	3474.0	2746.2	2331.5	2103.0	2039.6	2018.4
17.5°	7866.3	7295.0	5881.7	4586.9	3419.0	2500.8	1976.1	1777.2	1688.4	1688.4	1675.7
20°	7532.0	6888.8	5208.9	3749.1	2564.3	1866.1	1582.6	1519.1	1514.9	1510.6	1510.6
22.5°	7312.0	6423.4	4599.6	2978.9	1933.8	1493.7	1375.2	1349.8	1366.8	1417.5	1417.5
25°	7079.2	5974.8	3926.8	2297.7	1497.9	1282.1	1214.4	1231.4	1273.7	1320.2	1303.3
27.5°	6842.3	5682.8	3292.1	1802.6	1227.1	1121.3	1095.9	1134.0	1180.6	1222.9	1210.2
30°	6787.3	5369.7	2691.2	1366.8	1053.6	977.5	994.4	1028.2	1074.8	1091.7	1108.6
32.5°	6871.9	5124.3	2204.6	1121.3	918.2	897.1	897.1	914.0	943.6	981.7	969.0
35°	7113.1	4984.7	1743.4	973.2	842.1	820.9	816.7	833.6	850.5	863.2	850.5
37.5°	7481.2	4874.6	1426.0	863.2	791.3	757.4	749.0	744.7	761.7	765.9	774.4
40°	7950.9	4933.9	1210.2	795.5	740.5	702.4	677.0	677.0	677.0	689.7	694.0
42.5°	8458.7	5014.3	1045.2	757.4	694.0	647.4	622.0	613.6	622.0	639.0	634.7
45°	8991.8	5170.8	939.4	698.2	651.6	592.4	558.6	550.1	571.2	605.1	600.9
47.5°	9491.2	5395.1	859.0	660.1	609.3	554.3	512.0	503.5	541.6	588.2	592.4
50°	9990.5	5784.4	829.4	630.5	579.7	516.2	478.2	469.7	512.0	571.2	583.9
52.5°	10566.0	6203.3	808.2	592.4	545.9	486.6	444.3	435.8	482.4	558.6	562.8
55°	10942.6	6558.8	791.3	524.7	482.4	440.1	406.2	402.0	452.8	520.5	537.4
57.5°	10502.5	6063.7	732.0	457.0	410.5	389.3	359.7	359.7	402.0	465.5	478.2
60°	7963.6	3990.3	520.5	368.1	347.0	334.3	321.6	321.6	355.4	402.0	406.2
62.5°	4663.1	2149.6	334.3	296.2	296.2	283.5	262.4	262.4	296.2	321.6	325.8
65°	1383.7	689.7	270.8	253.9	249.7	228.5	207.3	203.1	228.5	241.2	237.0
67.5°	397.8	317.4	224.3	211.6	207.3	173.5	160.8	156.6	160.8	152.3	148.1
70°	237.0	215.8	173.5	177.7	156.6	126.9	114.2	110.0	101.6	88.9	80.4
72.5°	131.2	131.2	126.9	135.4	110.0	84.6	71.9	59.2	46.5	38.1	33.9
75°	80.4	84.6	88.9	93.1	71.9	55.0	46.5	29.6	16.9	8.5	8.5
77.5°	55.0	59.2	63.5	67.7	59.2	50.8	38.1	21.2	4.2	0.0	0.0
80°	42.3	46.5	55.0	59.2	63.5	67.7	50.8	21.2	4.2	0.0	0.0
82.5°	46.5	50.8	63.5	59.2	59.2	59.2	46.5	21.2	4.2	0.0	0.0
85°	8.5	12.7	21.2	21.2	29.6	38.1	29.6	8.5	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)