

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: P532056

Luminaire Tested: **GALN-SA7B-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-827-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24648 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

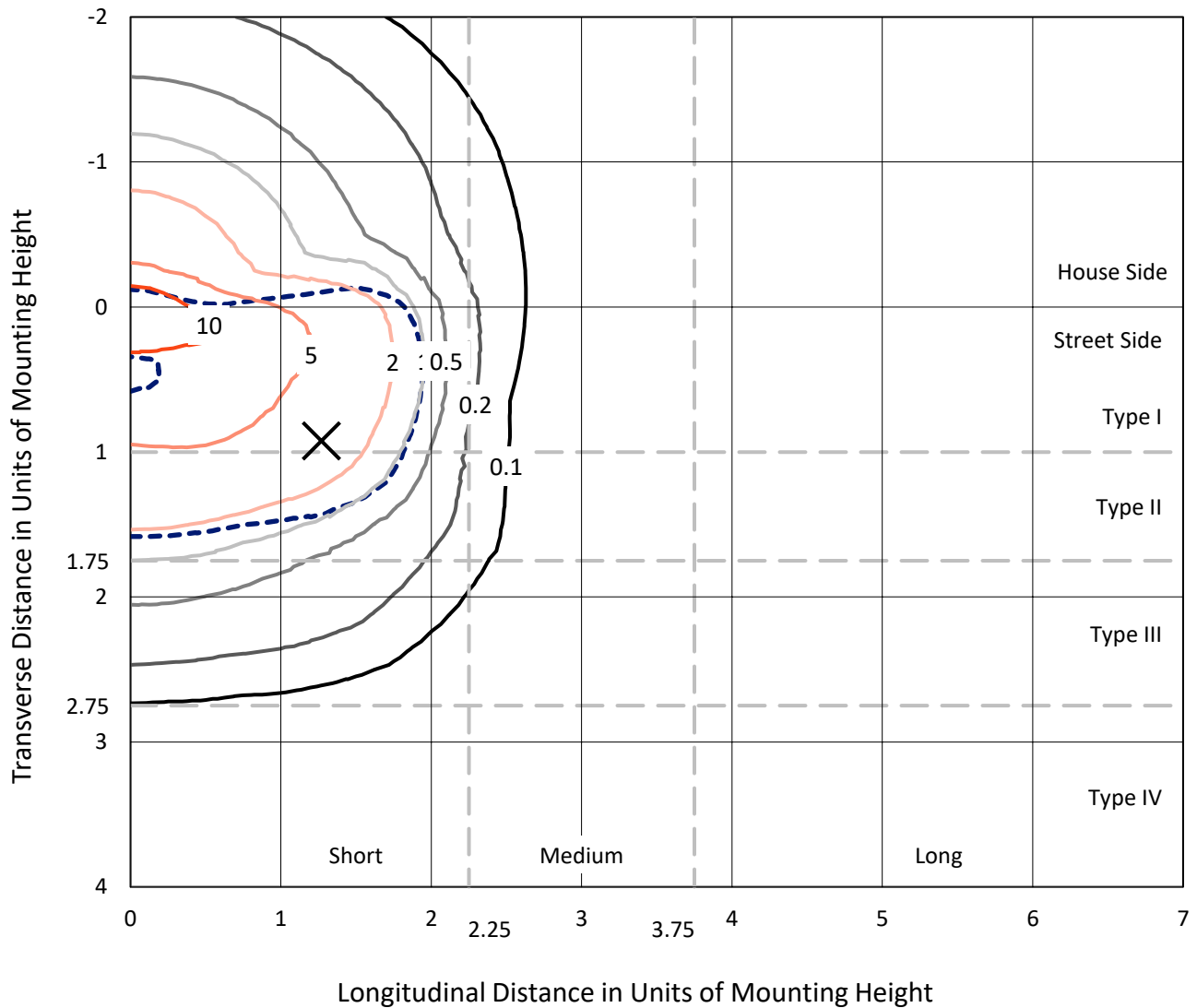
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

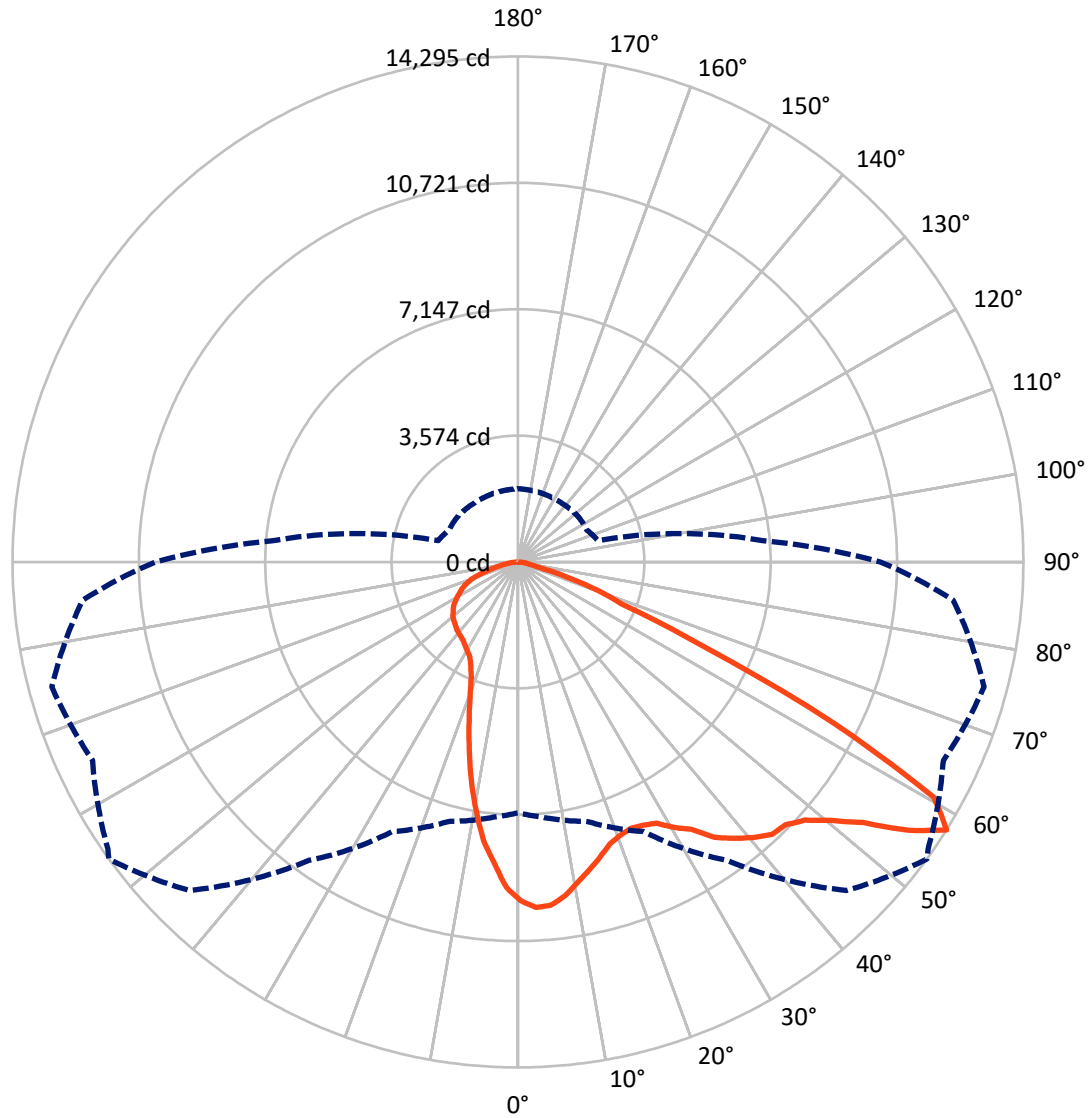
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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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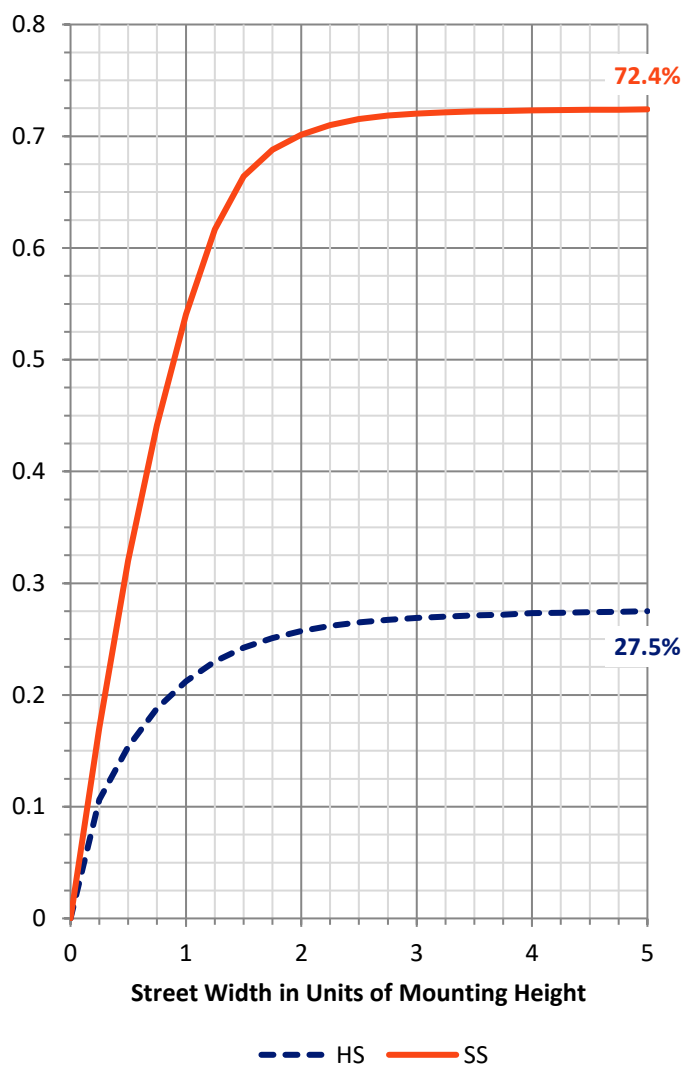
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6819.0	0.0	6819.0
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	17829.0	0.0	17829.0
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	24648.0	0.0	24648.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	826.2	3.4
10°-20°	1913.0	7.8
20°-30°	2687.8	10.9
30°-40°	3757.5	15.2
40°-50°	5087.0	20.6
50°-60°	6196.2	25.1
60°-70°	3227.2	13.1
70°-80°	826.9	3.4
80°-90°	126.1	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°	24648.0	100.0
0°-180°	24648.0	100.0

**Coefficient of Utilization**



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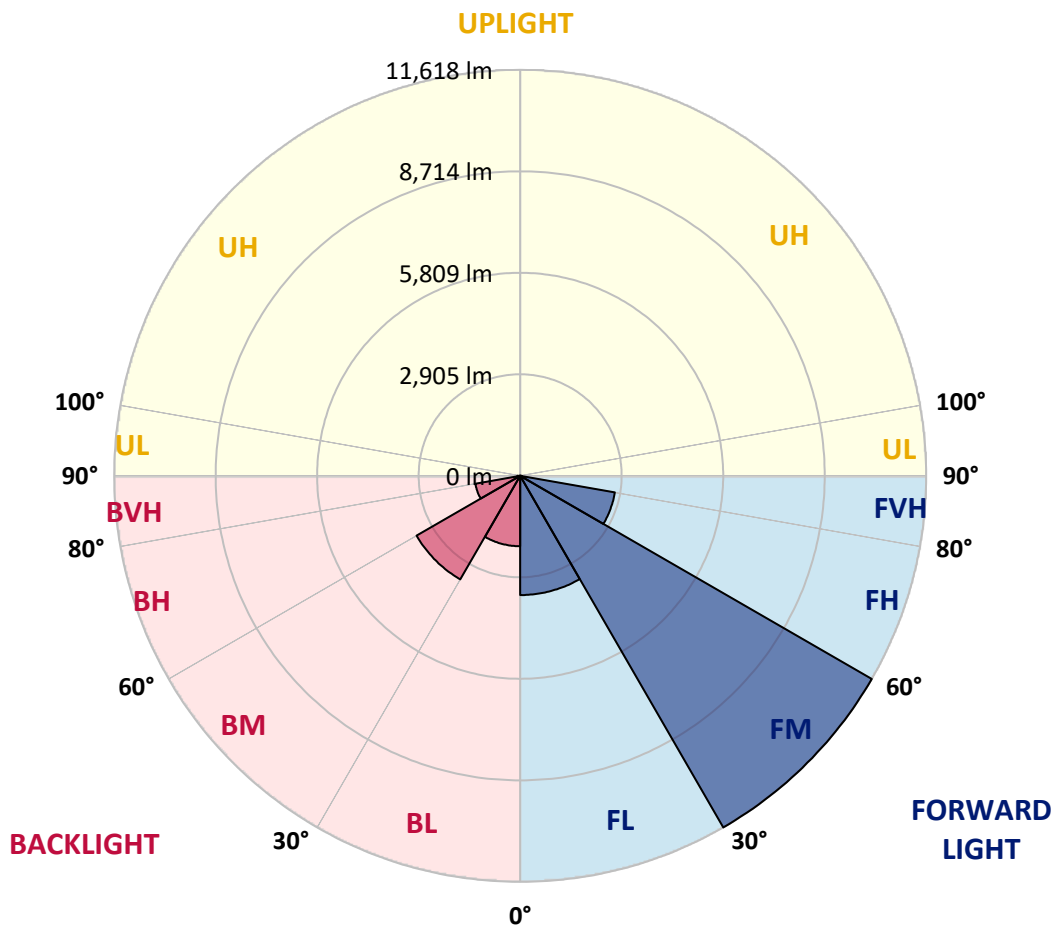
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3411.6	13.8			
FM (30°-60°)	11618.3	47.1			
FH (60°-80°)	2751.4	11.2			G2/5000
FVH (80°-90°)	47.7	0.2			G1/100
BL (0°-30°)	2015.4	8.2	B3/2500		
BM (30°-60°)	3422.4	13.9	B3/5000		
BH (60°-80°)	1302.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	78.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9580.4	9580.4	9580.4	9580.4	9580.4	9580.4	9580.4	9580.4	9580.4	9580.4	9580.4
2.5°	9852.9	9814.8	9821.2	9871.9	9808.5	9783.2	9783.2	9659.6	9669.1	9583.6	9561.4
5°	9624.7	9536.0	9596.2	9672.3	9684.9	9710.3	9751.5	9719.8	9631.1	9539.2	9390.3
7.5°	9029.1	9108.3	9130.5	9184.4	9298.4	9403.0	9532.9	9444.2	9441.0	9349.1	9260.4
10°	8506.4	8458.9	8579.3	8658.5	8848.6	9022.8	9222.4	9212.9	9260.4	9155.9	9003.8
12.5°	7986.8	7948.8	8005.8	8186.4	8452.5	8706.0	8943.6	8854.9	9108.3	9089.3	8763.0
15°	7435.6	7464.1	7546.5	7714.4	8062.9	8367.0	8668.0	8671.1	8896.1	8972.1	8534.9
17.5°	7049.1	7017.4	7121.9	7372.2	7682.7	8047.0	8389.2	8458.9	8804.2	8848.6	8465.2
20°	6760.8	6805.1	6941.4	7068.1	7426.1	7866.4	8253.0	8278.3	8785.2	8905.6	8354.3
22.5°	6691.1	6665.7	6710.1	6916.0	7210.6	7689.0	8180.1	8275.1	8782.0	8886.6	8145.2
25°	6618.2	6700.6	6697.4	6903.3	7118.8	7546.5	8240.3	8344.8	8949.9	8984.8	8173.7
27.5°	6782.9	6773.4	6862.1	6878.0	7144.1	7584.5	8367.0	8446.2	9228.7	9200.2	8195.9
30°	6947.7	6900.2	6954.0	7140.9	7264.5	7803.1	8715.5	8709.2	9589.9	9570.9	8265.6
32.5°	7150.4	7128.3	7163.1	7327.9	7537.0	8094.5	9010.1	9197.1	9957.4	10077.8	8506.4
35°	7188.5	7280.3	7362.7	7584.5	7882.3	8566.6	9564.6	9719.8	10381.9	10758.9	8965.8
37.5°	7429.2	7464.1	7657.3	8050.2	8322.7	9197.1	9916.2	10014.4	10768.4	11196.1	9450.5
40°	7685.9	7727.0	8018.5	8430.4	8804.2	9608.9	10245.7	10277.4	10892.0	11532.0	9767.3
42.5°	8034.4	8072.4	8360.7	8877.1	9377.6	9960.6	10537.2	10572.0	10882.5	11918.5	10271.0
45°	8395.5	8487.4	8826.4	9412.5	9862.4	10372.4	10603.7	10746.3	10971.2	12263.8	10679.7
47.5°	8902.4	8988.0	9266.8	9840.2	10366.1	10733.6	10911.0	11050.4	11183.5	12564.8	10942.7
50°	9441.0	9456.8	9795.8	10315.4	10701.9	11142.3	11484.4	11532.0	11462.3	12913.3	11389.4
52.5°	9837.0	9887.7	10150.7	10657.6	11234.2	11775.9	12244.8	12295.5	12159.2	13043.2	11541.5
55°	9181.2	9152.7	9580.4	10255.2	11592.2	12720.0	13401.1	13439.2	12666.1	13445.5	12038.9
57.5°	7096.6	7232.8	7597.2	8411.4	10299.6	13138.2	14294.6	14158.3	13274.4	13648.3	12355.7
60°	5157.7	5126.0	5370.0	5914.9	7761.9	11322.9	13515.2	13654.6	12777.0	12301.8	10188.7
62.5°	4200.9	4156.6	4175.6	4194.6	5008.8	7514.8	10004.9	10001.8	9840.2	8842.2	6871.7
65°	3358.2	3462.8	3472.3	3614.8	3719.4	4489.2	5797.7	6108.1	5319.3	4362.5	3165.0
67.5°	2531.3	2493.3	2620.0	3126.9	3323.4	3241.0	3165.0	3199.8	2274.7	1641.1	1546.0
70°	1492.2	1476.3	1628.4	2179.7	2737.3	2575.7	2385.6	2388.8	1561.9	1146.9	1276.8
72.5°	817.4	814.2	845.9	1105.7	1555.5	1615.7	1432.0	1476.3	931.4	928.3	998.0
75°	456.2	446.7	437.2	487.9	560.8	592.4	605.1	611.4	640.0	716.0	744.5
77.5°	167.9	161.6	161.6	186.9	237.6	297.8	377.0	383.3	453.0	519.6	548.1
80°	57.0	63.4	85.5	117.2	158.4	212.3	256.6	263.0	320.0	364.3	373.8
82.5°	34.8	38.0	57.0	82.4	114.1	148.9	190.1	193.3	237.6	266.1	278.8
85°	15.8	19.0	31.7	50.7	72.9	98.2	101.4	101.4	98.2	101.4	95.0
87.5°	0.0	0.0	6.3	6.3	6.3	9.5	12.7	9.5	15.8	19.0	19.0
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°	9580.4	9580.4	9580.4	9580.4	9580.4	9580.4	9580.4	9580.4	9580.4	9580.4	9580.4
2.5°	9494.9	9460.0	9352.3	9257.2	9228.7	9102.0	8915.1	8937.3	8801.0	8864.4	8797.9
5°	9365.0	9247.7	8972.1	8854.9	8547.6	8408.2	8313.1	8075.5	7964.7	7942.5	7847.4
7.5°	9032.3	8959.4	8614.1	8297.3	7971.0	7692.2	7334.2	7090.3	6916.0	6868.5	6729.1
10°	8769.4	8607.8	8129.4	7647.8	7182.1	6697.4	6231.7	5867.4	5689.9	5484.0	5414.3
12.5°	8509.6	8265.6	7619.3	7001.5	6399.6	5788.2	5224.2	4780.7	4394.2	4302.3	4270.6
15°	8348.0	7923.5	7163.1	6418.6	5563.2	4764.9	4200.9	3909.5	3671.9	3573.6	3643.3
17.5°	8135.7	7641.5	6725.9	5734.3	4793.4	4058.4	3586.3	3405.7	3320.2	3329.7	3301.2
20°	7869.6	7375.4	6152.5	5113.3	4105.9	3519.8	3250.5	3184.0	3196.6	3218.8	3209.3
22.5°	7679.5	7052.2	5737.5	4479.7	3548.3	3222.0	3111.1	3063.6	3104.8	3123.8	3107.9
25°	7533.8	6776.6	5233.7	3919.0	3225.1	3054.1	3003.4	3000.2	3063.6	3088.9	3073.1
27.5°	7400.7	6520.0	4733.2	3491.3	3009.7	2924.2	2908.3	2946.4	2987.5	3012.9	3035.1
30°	7321.5	6323.6	4264.3	3133.3	2902.0	2860.8	2832.3	2867.1	2889.3	2914.7	2902.0
32.5°	7397.6	6184.2	3811.2	2930.5	2813.3	2772.1	2810.1	2787.9	2826.0	2848.1	2813.3
35°	7635.2	6060.6	3488.1	2822.8	2711.9	2727.8	2734.1	2724.6	2740.4	2721.4	2762.6
37.5°	7869.6	6016.3	3190.3	2730.9	2664.4	2664.4	2658.1	2639.0	2670.7	2664.4	2683.4
40°	8167.4	6044.8	2936.8	2632.7	2620.0	2613.7	2588.4	2585.2	2572.5	2575.7	2582.0
42.5°	8427.2	6108.1	2791.1	2569.3	2578.8	2591.5	2544.0	2506.0	2521.8	2490.1	2490.1
45°	8702.8	6165.2	2661.2	2525.0	2515.5	2512.3	2474.3	2452.1	2439.5	2442.6	2471.1
47.5°	9136.9	6247.5	2563.0	2464.8	2471.1	2423.6	2414.1	2385.6	2398.3	2417.3	2420.4
50°	9444.2	6421.8	2487.0	2395.1	2417.3	2385.6	2328.6	2315.9	2315.9	2347.6	2341.2
52.5°	9659.6	6665.7	2414.1	2319.1	2328.6	2303.2	2284.2	2255.7	2236.7	2281.0	2303.2
55°	10318.6	7071.2	2395.1	2255.7	2252.5	2227.2	2192.3	2163.8	2154.3	2160.7	2205.0
57.5°	10255.2	6944.5	2334.9	2144.8	2138.5	2103.6	2068.8	2059.3	2056.1	2062.4	2075.1
60°	8325.8	5129.2	2084.6	2018.1	2008.6	2002.3	1967.4	1929.4	1910.4	1929.4	1913.5
62.5°	5509.4	3434.2	1837.5	1866.0	1872.4	1856.5	1799.5	1761.5	1767.8	1790.0	1755.1
65°	2705.6	2018.1	1666.4	1742.5	1748.8	1704.4	1650.6	1606.2	1584.1	1603.1	1587.2
67.5°	1546.0	1542.9	1527.0	1606.2	1603.1	1558.7	1473.2	1435.2	1397.1	1403.5	1394.0
70°	1311.6	1336.9	1368.6	1416.1	1413.0	1362.3	1260.9	1232.4	1178.5	1172.2	1156.4
72.5°	1032.8	1077.2	1146.9	1181.7	1153.2	1089.8	1023.3	975.8	928.3	899.7	909.3
75°	766.7	830.0	868.1	890.2	845.9	811.0	757.2	700.2	643.1	617.8	608.3
77.5°	557.6	576.6	611.4	627.3	598.8	563.9	532.2	475.2	421.4	386.5	377.0
80°	389.7	402.4	427.7	427.7	427.7	411.9	370.7	313.6	278.8	247.1	240.8
82.5°	272.5	285.1	310.5	297.8	294.6	275.6	250.3	205.9	167.9	145.7	139.4
85°	95.0	104.5	126.7	152.1	161.6	158.4	142.6	114.1	88.7	72.9	66.5
87.5°	22.2	22.2	25.3	22.2	22.2	25.3	22.2	22.2	22.2	15.8	12.7
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)