

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: P531359

Luminaire Tested: **GALN-SA6C-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18079 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

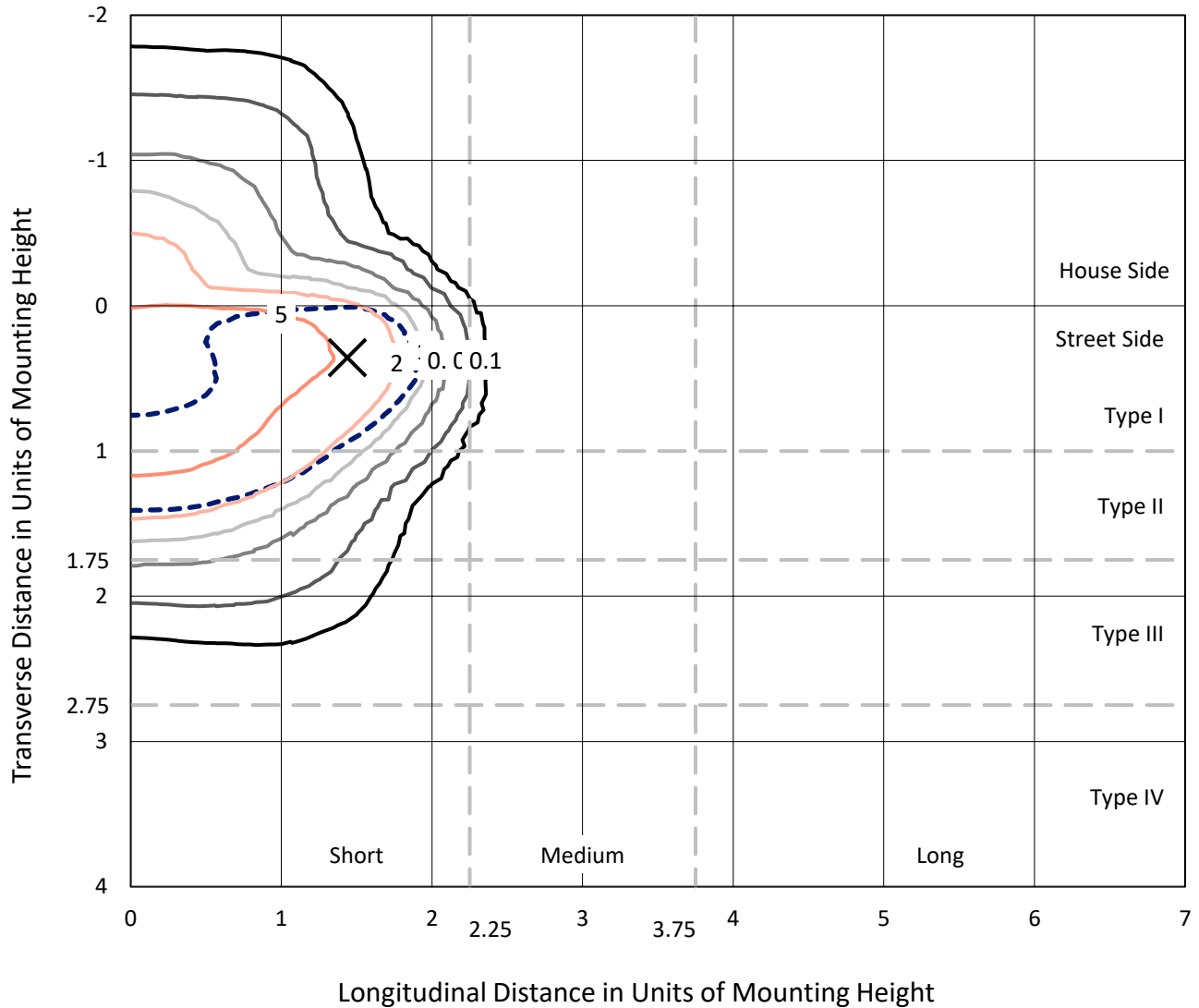
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

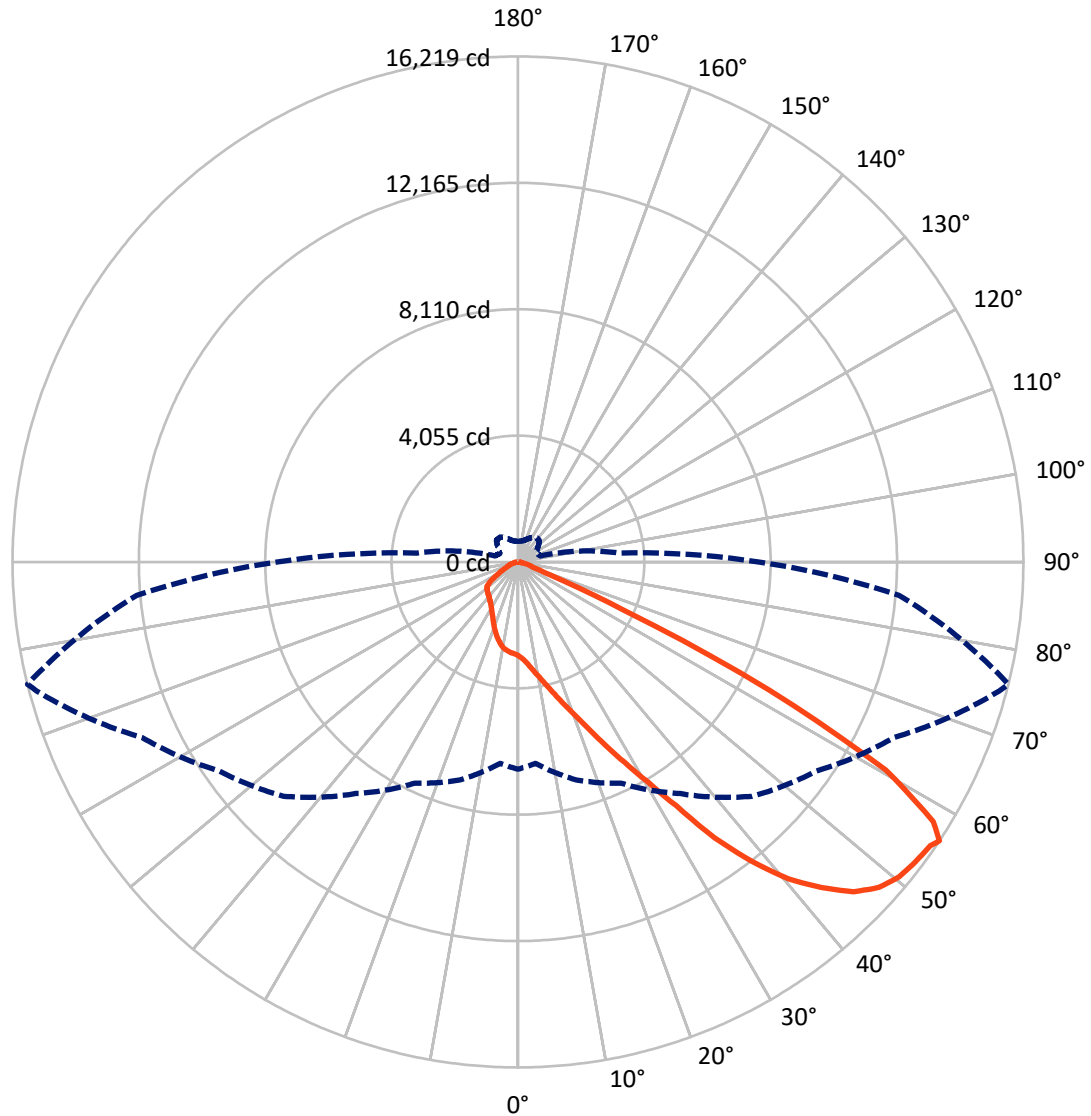
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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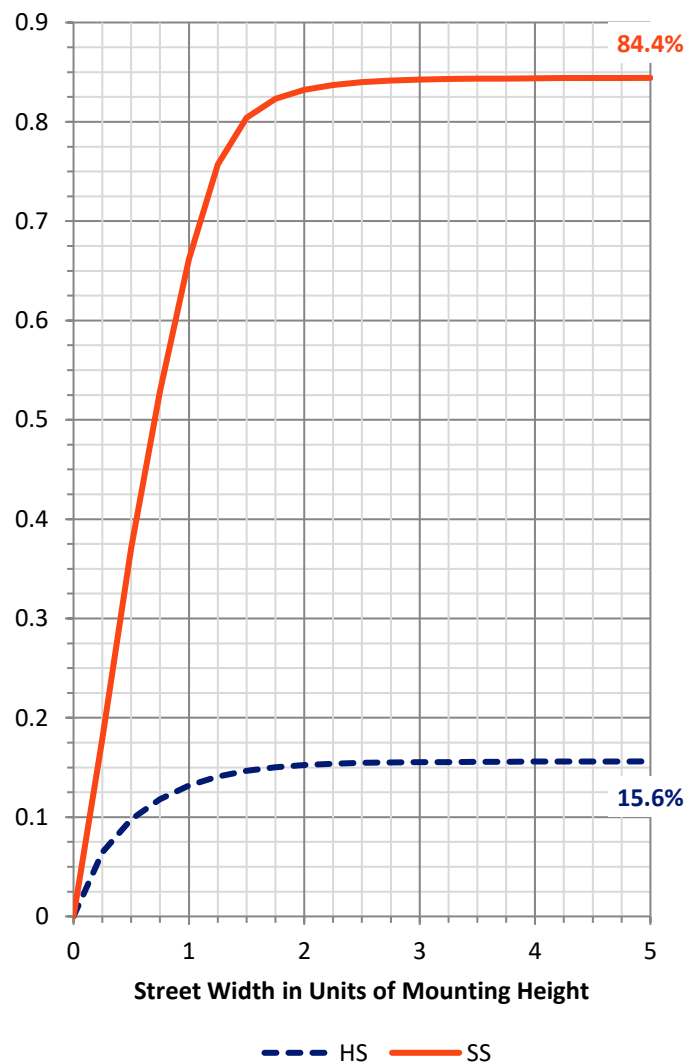
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2840.1	0.0	2840.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	15238.9	0.0	15238.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	18079.0	0.0	18079.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.1	1.7
10°-20°	973.9	5.4
20°-30°	1765.9	9.8
30°-40°	3045.4	16.8
40°-50°	4947.4	27.4
50°-60°	5214.7	28.8
60°-70°	1593.3	8.8
70°-80°	204.3	1.1
80°-90°	31.0	0.2
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°	18079.0	100.0
0°-180°	18079.0	100.0

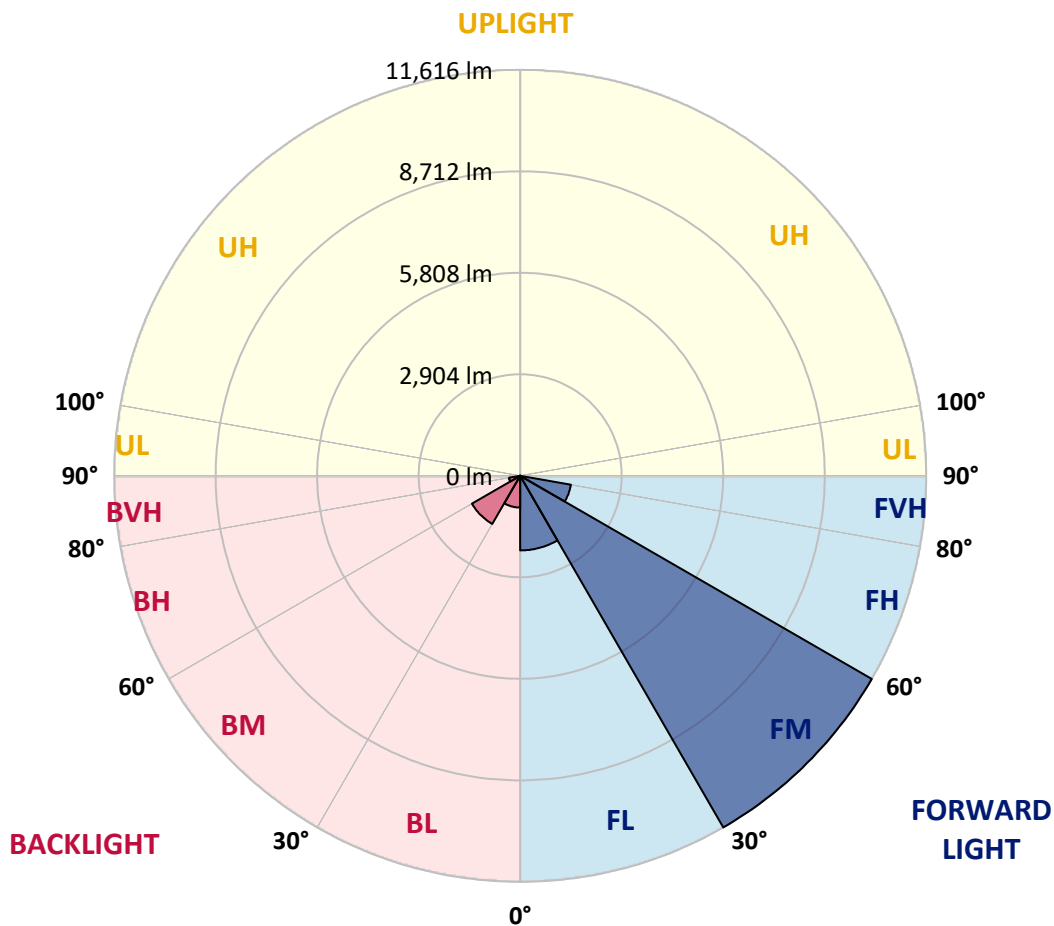


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2134.4	11.8			
FM (30°-60°)	11615.7	64.2			
FH (60°-80°)	1473.6	8.2			G1/1800
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	908.6	5.0	B2/1000		
BM (30°-60°)	1591.7	8.8	B2/2500		
BH (60°-80°)	324.0	1.8	B1/500		G1/500
BVH (80°-90°)	15.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3009.3	3009.3	3009.3	3009.3	3009.3	3009.3	3009.3	3009.3	3009.3	3009.3	3009.3
2.5°	3465.8	3385.9	3389.2	3382.5	3372.5	3335.9	3225.9	3209.2	3135.9	3115.9	3049.3
5°	3882.4	3812.4	3852.4	3792.4	3735.8	3702.4	3522.5	3439.2	3322.5	3279.2	3185.9
7.5°	4142.3	4109.0	4095.7	4099.0	4045.7	3962.4	3882.4	3699.1	3542.5	3509.2	3312.5
10°	4269.0	4249.0	4269.0	4259.0	4282.3	4292.3	4152.3	4042.4	3812.4	3755.8	3449.2
12.5°	4299.0	4339.0	4355.6	4398.9	4455.6	4552.2	4542.2	4392.3	4085.7	4049.0	3659.1
15°	4372.3	4405.6	4388.9	4458.9	4565.6	4728.9	4815.5	4792.2	4462.3	4395.6	3902.4
17.5°	4438.9	4378.9	4435.6	4575.6	4682.2	4932.1	5142.1	5238.7	4872.2	4795.5	4125.7
20°	4528.9	4512.2	4502.3	4572.2	4762.2	5095.4	5512.0	5688.6	5332.1	5252.1	4445.6
22.5°	4802.2	4805.5	4798.8	4695.5	4832.2	5208.7	5835.3	6271.8	5881.9	5815.3	4808.8
25°	5162.1	5118.8	5085.4	5002.1	4985.5	5312.1	6161.9	6985.0	6541.8	6495.1	5202.1
27.5°	5542.0	5542.0	5442.0	5365.4	5258.7	5568.7	6461.8	7678.2	7338.2	7274.9	5545.3
30°	5955.2	5978.6	5965.2	5801.9	5735.3	5848.6	6768.4	8564.6	8251.4	8171.4	6111.9
32.5°	6565.1	6515.1	6571.8	6435.1	6238.5	6338.5	7251.6	9357.8	9437.7	9324.4	6855.0
35°	7371.6	7341.6	7304.9	7081.6	6848.4	6928.3	7934.8	10334.2	10927.4	10870.7	7604.8
37.5°	8094.7	8078.1	8048.1	7894.8	7624.8	7721.5	8711.2	11350.6	12380.4	12193.7	8664.6
40°	8854.5	8944.5	8847.9	8711.2	8464.6	8677.9	9624.4	11953.8	13603.4	13376.8	9474.4
42.5°	9884.3	9814.3	9857.6	9607.7	9474.4	9707.7	10540.8	12557.0	14553.2	14283.2	10334.2
45°	10980.7	10984.0	10867.4	10787.4	10440.8	10694.1	11104.0	12890.2	15309.7	15099.7	10984.0
47.5°	11683.9	11680.5	11807.2	11933.8	11577.2	11327.3	11487.2	13206.8	15699.6	15602.9	11220.6
50°	11573.9	11607.2	11770.5	12243.7	12430.3	12093.8	11847.2	13113.5	15876.2	15866.2	11423.9
52.5°	10067.6	10177.6	10450.8	11134.0	12073.8	12490.3	12223.7	13286.8	15962.8	15979.5	11727.2
55°	7664.8	7724.8	8244.7	9074.5	10114.2	11540.6	12073.8	13423.4	16029.5	16059.5	12093.8
56°	6648.4	6488.4	7238.3	7828.1	9071.2	10630.8	11693.9	13316.8	15989.5	16219.4	12277.0
57.5°	5018.8	4912.2	5518.7	6255.2	7451.5	9097.8	10514.1	12813.6	15719.6	15716.2	12013.8
60°	3052.6	2946.0	3412.5	3845.7	4515.6	5602.0	7105.0	10204.2	13290.1	13570.1	9727.7
62.5°	1816.2	1882.9	2342.8	2606.0	2822.7	2936.0	3675.8	6065.2	8867.9	9067.8	6035.2
65°	1209.7	1233.0	1579.6	2012.8	2109.5	1679.6	1496.3	2456.1	3845.7	3722.4	2489.4
67.5°	746.5	799.8	1059.7	1513.0	1676.3	1226.4	709.8	916.4	1059.7	1059.7	719.8
70°	453.2	479.9	706.5	1029.8	1149.7	789.8	516.5	516.5	509.9	499.9	429.9
72.5°	216.6	233.3	359.9	529.9	539.9	416.6	399.9	436.6	426.6	423.2	356.6
75°	93.3	100.0	126.6	166.6	190.0	176.6	243.3	313.3	323.3	313.3	256.6
77.5°	30.0	33.3	46.7	60.0	63.3	76.6	103.3	130.0	150.0	140.0	126.6
80°	3.3	6.7	13.3	30.0	46.7	60.0	76.6	86.6	96.6	96.6	90.0
82.5°	3.3	3.3	13.3	26.7	43.3	56.7	73.3	83.3	96.6	100.0	93.3
85°	0.0	3.3	10.0	23.3	36.7	36.7	33.3	33.3	23.3	23.3	23.3
87.5°	0.0	0.0	3.3	3.3	3.3	6.7	6.7	6.7	6.7	6.7	6.7
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°	3009.3	3009.3	3009.3	3009.3	3009.3	3009.3	3009.3	3009.3	3009.3	3009.3	3009.3
2.5°	3035.9	3029.3	2939.3	2882.6	2852.6	2792.7	2756.0	2729.3	2709.3	2686.0	2689.4
5°	3075.9	3052.6	2902.6	2799.3	2676.0	2609.4	2552.7	2506.1	2476.1	2469.4	2456.1
7.5°	3189.2	3065.9	2839.3	2652.7	2496.1	2429.4	2379.4	2349.4	2362.8	2332.8	2356.1
10°	3275.9	3092.6	2762.7	2492.7	2336.1	2286.1	2259.5	2282.8	2316.1	2302.8	2286.1
12.5°	3382.5	3119.3	2639.4	2339.4	2192.8	2156.1	2202.8	2246.1	2312.8	2339.4	2306.1
15°	3502.5	3149.2	2482.7	2162.8	2069.5	2099.5	2179.5	2256.1	2322.8	2356.1	2376.1
17.5°	3649.1	3139.2	2329.4	2022.8	1952.9	2039.5	2136.2	2206.1	2306.1	2356.1	2342.8
20°	3785.8	3105.9	2159.5	1882.9	1886.2	1966.2	2046.2	2159.5	2212.8	2279.5	2256.1
22.5°	3915.7	3045.9	1982.9	1786.2	1786.2	1909.5	1949.5	2022.8	2069.5	2102.8	2099.5
25°	4099.0	2932.6	1836.2	1692.9	1732.9	1812.9	1846.2	1869.6	1849.6	1876.2	1879.5
27.5°	4229.0	2816.0	1716.3	1609.6	1682.9	1742.9	1732.9	1719.6	1672.9	1636.3	1659.6
30°	4368.9	2679.4	1612.9	1553.0	1593.0	1646.3	1606.3	1566.3	1493.0	1433.0	1436.3
32.5°	4568.9	2616.0	1523.0	1486.3	1539.6	1546.3	1503.0	1443.0	1369.7	1313.0	1309.7
35°	4942.1	2576.0	1446.3	1443.0	1453.0	1456.3	1413.0	1339.7	1309.7	1263.0	1279.7
37.5°	5315.4	2556.1	1393.0	1379.7	1376.3	1379.7	1329.7	1259.7	1316.4	1313.0	1319.7
40°	5791.9	2646.0	1316.4	1299.7	1303.0	1303.0	1239.7	1219.7	1319.7	1329.7	1333.0
42.5°	6275.2	2759.3	1266.4	1213.0	1226.4	1226.4	1193.0	1169.7	1239.7	1173.1	1163.1
45°	6695.1	2926.0	1213.0	1126.4	1159.7	1176.4	1166.4	1126.4	1083.1	969.8	969.8
47.5°	6831.7	3072.6	1149.7	1043.1	1069.7	1143.1	1113.1	1029.8	953.1	859.8	853.1
50°	7071.6	3232.6	1099.7	946.4	1003.1	1093.1	1063.1	979.8	893.1	826.5	829.8
52.5°	7318.2	3415.8	1006.4	833.1	903.1	1053.1	1053.1	959.8	826.5	779.8	773.1
55°	7688.2	3409.2	839.8	683.2	806.5	993.1	1009.8	859.8	739.8	703.2	703.2
56°	7741.5	3255.9	756.5	639.8	763.1	976.4	979.8	833.1	706.5	666.5	666.5
57.5°	7341.6	2939.3	663.2	586.5	709.8	946.4	949.8	809.8	679.8	623.2	616.5
60°	5648.6	1989.5	553.2	523.2	643.2	853.1	869.8	736.5	596.5	553.2	549.9
62.5°	3189.2	1103.1	486.5	473.2	553.2	726.5	776.5	643.2	506.5	483.2	489.9
65°	1456.3	606.5	409.9	383.2	446.6	559.9	626.5	529.9	416.6	389.9	389.9
67.5°	533.2	413.2	349.9	303.3	313.3	363.2	406.6	343.3	276.6	236.6	246.6
70°	379.9	346.6	306.6	263.3	243.3	236.6	233.3	193.3	136.6	106.6	113.3
72.5°	306.6	286.6	256.6	223.3	190.0	160.0	136.6	100.0	63.3	43.3	40.0
75°	219.9	209.9	186.6	160.0	133.3	113.3	93.3	63.3	33.3	16.7	16.7
77.5°	113.3	113.3	110.0	100.0	83.3	66.7	53.3	36.7	20.0	6.7	6.7
80°	86.6	93.3	96.6	86.6	76.6	60.0	43.3	26.7	13.3	3.3	3.3
82.5°	83.3	96.6	103.3	90.0	76.6	56.7	43.3	26.7	13.3	3.3	3.3
85°	20.0	20.0	30.0	33.3	43.3	46.7	36.7	23.3	10.0	3.3	3.3
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	3.3	3.3	3.3	3.3	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)