

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: P531598

Luminaire Tested: **GALN-SA6D-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28751 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

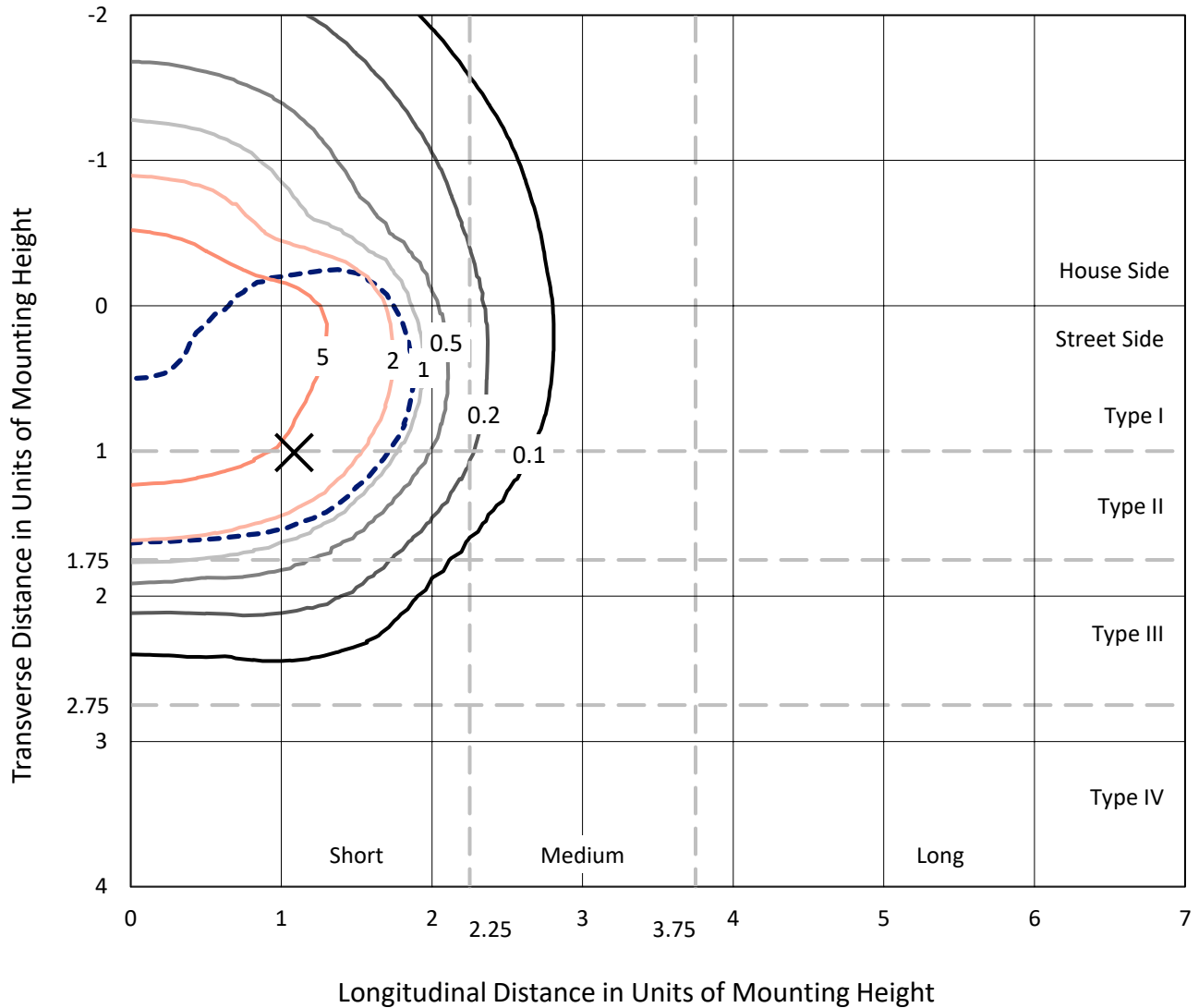
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

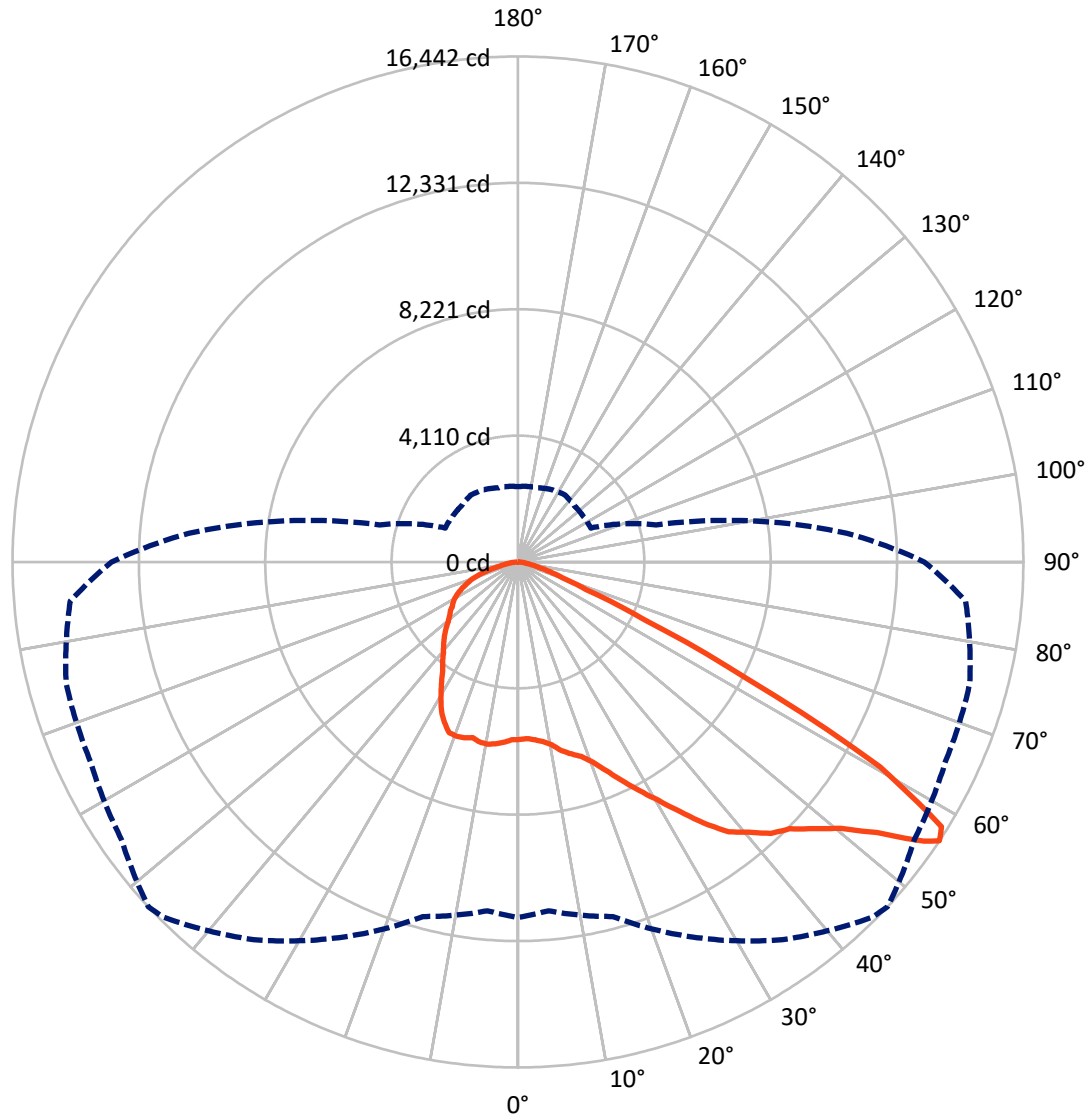
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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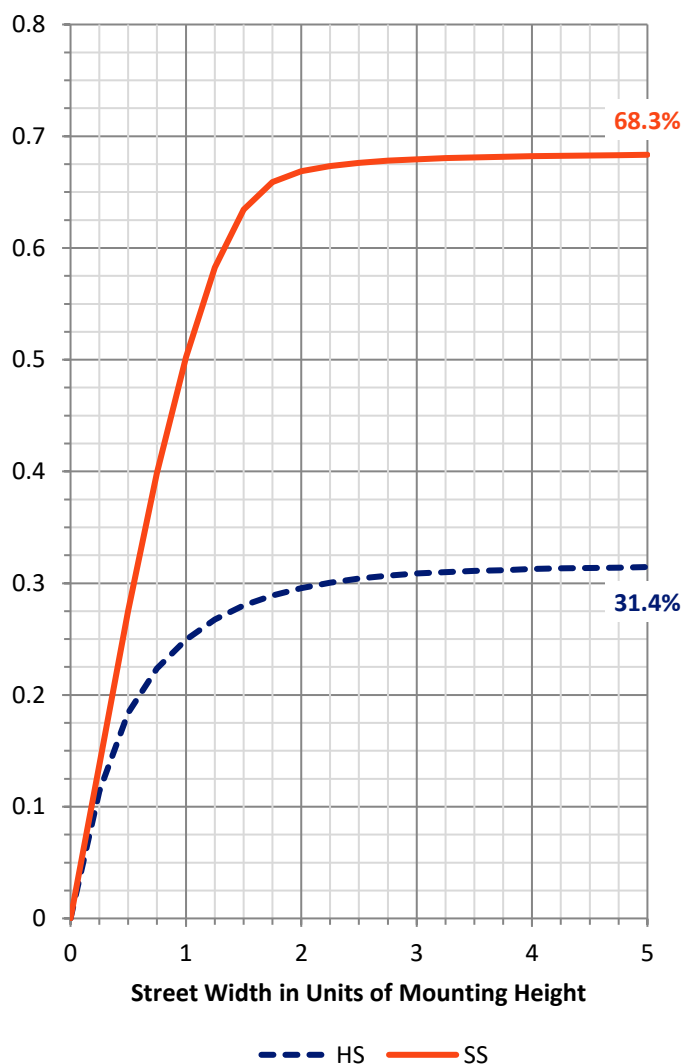
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9110.8	0.0	9110.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	19640.2	0.0	19640.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	28751.0	0.0	28751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.7	2.0
10°-20°	1775.1	6.2
20°-30°	3137.9	10.9
30°-40°	4713.1	16.4
40°-50°	6468.2	22.5
50°-60°	7706.0	26.8
60°-70°	3297.7	11.5
70°-80°	933.2	3.2
80°-90°	157.0	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°	28751.0	100.0
0°-180°	28751.0	100.0

Coefficient of Utilization



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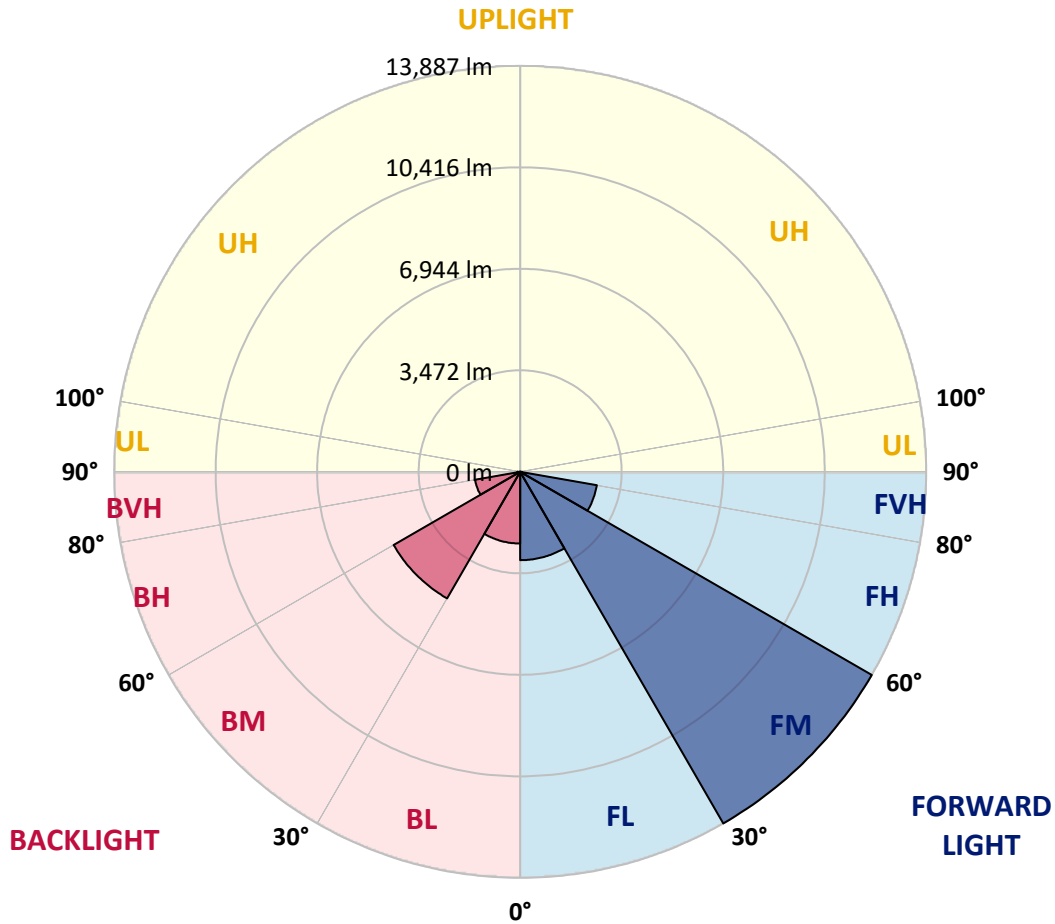
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3022.7	10.5			
FM (30°-60°)	13887.4	48.3			
FH (60°-80°)	2663.4	9.3			G2/5000
FVH (80°-90°)	66.7	0.2			G1/100
BL (0°-30°)	2453.0	8.5	B3/2500		
BM (30°-60°)	4999.9	17.4	B3/5000		
BH (60°-80°)	1567.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	90.4	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°	47°	55°	65°	75°	85°
0°	5775.2	5775.2	5775.2	5775.2	5775.2	5775.2	5775.2	5775.2	5775.2	5775.2	5775.2
2.5°	5753.2	5742.2	5734.9	5793.5	5771.5	5775.2	5753.2	5775.2	5789.9	5756.9	5804.5
5°	5742.2	5775.2	5745.9	5764.2	5811.9	5797.2	5811.9	5855.9	5844.9	5833.9	5819.2
7.5°	5844.9	5848.5	5870.5	5877.9	5892.5	5877.9	5899.9	5940.2	5929.2	5866.9	5874.2
10°	5991.5	5998.9	6002.5	6042.9	6068.5	6072.2	6046.5	6009.9	6006.2	6090.5	6031.9
12.5°	6160.2	6141.9	6185.9	6200.6	6229.9	6262.9	6295.9	6218.9	6266.6	6270.2	6200.6
15°	6405.9	6424.2	6372.9	6372.9	6383.9	6387.6	6479.2	6442.6	6435.2	6394.9	6424.2
17.5°	6772.6	6647.9	6644.2	6592.9	6585.6	6614.9	6647.9	6677.2	6776.2	6695.6	6537.9
20°	7040.2	7069.6	6963.2	6900.9	6911.9	6977.9	6944.9	7076.9	7146.6	7014.6	6860.6
22.5°	7513.3	7414.3	7439.9	7300.6	7311.6	7381.3	7377.6	7513.3	7553.6	7344.6	7120.9
25°	7832.3	7806.6	7828.6	7718.6	7733.3	7788.3	7876.3	8100.0	8033.9	7802.9	7285.9
27.5°	8298.0	8246.6	8228.3	8188.0	8173.3	8320.0	8422.6	8661.0	8613.3	8276.0	7579.3
30°	8774.6	8741.6	8760.0	8595.0	8653.6	8965.3	8994.6	9321.0	9299.0	8705.0	7905.6
32.5°	9104.7	9123.0	9156.0	9064.3	9324.7	9574.0	9673.0	10043.4	10061.7	9442.0	8536.3
35°	9636.3	9574.0	9592.3	9698.7	9819.7	10274.4	10435.7	10681.4	10835.4	10215.7	9141.3
37.5°	9970.0	10036.0	9959.0	10127.7	10443.0	10989.4	11136.1	11389.1	11550.4	10978.4	9966.3
40°	10490.7	10384.4	10439.4	10560.4	10883.0	11594.4	11554.1	11814.4	11865.7	11627.4	10736.4
42.5°	11051.7	11000.4	10923.4	11198.4	11469.7	11986.8	12067.4	11946.4	12206.8	12261.8	11836.4
45°	11722.7	11785.1	11796.1	11803.4	12041.8	12492.8	12382.8	12276.4	12577.1	12976.8	12518.4
47.5°	12346.1	12148.1	12291.1	12489.1	12826.4	12830.1	12958.5	12705.4	13024.5	13380.1	13134.5
50°	12555.1	12459.8	12650.4	13024.5	13545.1	13600.1	13614.8	13255.5	13420.5	13702.8	13347.1
52.5°	12474.4	12441.4	12929.1	13508.5	14271.2	14549.8	14623.2	14179.5	14271.2	14142.8	13816.5
55°	12089.4	12188.4	12679.8	13860.5	15030.2	15891.9	16031.2	15470.2	14887.2	14986.2	14626.8
56°	11561.4	11389.1	11939.1	13460.8	14997.2	16328.2	16441.9	15741.6	15345.5	15217.2	14619.5
57.5°	9808.7	9585.0	10307.4	12111.4	14164.8	16163.2	16247.6	15855.2	15268.5	15008.2	13552.5
60°	5742.2	5852.2	6768.9	8353.0	10927.0	13251.8	13534.1	13820.2	13427.8	12261.8	10087.4
62.5°	2772.1	2702.4	3358.8	4788.8	6658.9	8459.3	8375.0	9178.0	9618.0	8712.3	6369.2
65°	1452.1	1444.7	1833.4	2614.4	3659.5	4444.2	4521.2	4953.8	5558.9	4488.2	3234.1
67.5°	1067.0	1096.4	1290.7	1837.1	2354.1	2401.8	2390.8	2607.1	2665.8	2255.1	1987.4
70°	836.0	850.7	993.7	1397.0	1752.7	1569.4	1536.4	1562.1	1734.4	1807.7	1719.7
72.5°	605.0	619.7	740.7	942.4	1096.4	1070.7	1092.7	1235.7	1448.4	1525.4	1433.7
75°	403.3	414.3	480.4	575.7	649.0	700.4	740.7	905.7	1103.7	1147.7	1103.7
77.5°	278.7	289.7	333.7	407.0	414.3	447.3	462.0	539.0	660.0	715.0	685.7
80°	157.7	157.7	179.7	209.0	256.7	300.7	308.0	370.3	425.3	462.0	469.3
82.5°	73.3	77.0	95.3	128.3	168.7	209.0	216.3	256.7	297.0	333.7	344.7
85°	36.7	40.3	55.0	77.0	102.7	124.7	121.0	124.7	132.0	124.7	128.3
87.5°	11.0	11.0	14.7	18.3	14.7	18.3	18.3	22.0	25.7	29.3	33.0
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°	5775.2	5775.2	5775.2	5775.2	5775.2	5775.2	5775.2	5775.2	5775.2	5775.2	5775.2
2.5°	5808.2	5819.2	5745.9	5815.5	5789.9	5786.2	5837.5	5830.2	5848.5	5841.2	5797.2
5°	5811.9	5786.2	5863.2	5793.5	5826.5	5896.2	5848.5	5958.5	5903.5	5940.2	5859.5
7.5°	5925.5	5932.9	5918.2	5947.5	5932.9	5965.9	5940.2	5965.9	5921.9	5925.5	5998.9
10°	6024.5	6002.5	6028.2	5991.5	6017.2	6006.2	5947.5	5929.2	5943.9	5925.5	5973.2
12.5°	6207.9	6167.5	6149.2	6105.2	6075.9	5965.9	5874.2	5822.9	5892.5	5903.5	5881.5
15°	6394.9	6398.6	6314.2	6215.2	6031.9	5866.9	5888.9	5907.2	5907.2	5936.5	5881.5
17.5°	6512.2	6512.2	6435.2	6237.2	6050.2	5954.9	5932.9	5874.2	5822.9	5815.5	5811.9
20°	6717.6	6655.2	6479.2	6233.6	6042.9	5998.9	5833.9	5694.5	5588.2	5551.5	5547.9
22.5°	6952.2	6794.6	6548.9	6240.9	6031.9	5969.5	5661.5	5452.5	5261.9	5181.2	5192.2
25°	7168.6	6915.6	6589.2	6207.9	5991.5	5690.9	5346.2	5056.5	4858.5	4792.5	4759.5
27.5°	7318.9	7043.9	6589.2	6237.2	5841.2	5379.2	5027.2	4656.8	4484.5	4440.5	4447.8
30°	7520.6	7205.3	6702.9	6174.9	5540.5	4975.8	4554.2	4312.2	4209.5	4172.8	4198.5
32.5°	7993.6	7626.9	6860.6	6024.5	5184.8	4572.5	4231.5	4095.8	3945.5	3872.1	3846.5
35°	8507.0	8026.6	7014.6	5771.5	4785.2	4205.8	3993.1	3868.5	3688.8	3608.1	3622.8
37.5°	9233.0	8540.0	7025.6	5353.5	4352.5	4000.5	3806.1	3611.8	3465.1	3340.5	3303.8
40°	10212.0	9240.3	6999.9	4913.5	4004.1	3758.5	3615.5	3373.5	3208.4	3120.4	3138.8
42.5°	11073.7	10061.7	6893.6	4414.8	3688.8	3593.5	3432.1	3193.8	3032.4	2940.8	2933.4
45°	11799.7	10666.7	6691.9	3989.5	3424.8	3410.1	3223.1	3039.8	2911.4	2827.1	2863.8
47.5°	12470.8	11154.4	6387.6	3564.1	3182.8	3212.1	3032.4	2918.8	2838.1	2761.1	2757.4
50°	12712.8	11147.1	6119.9	3212.1	2988.4	2973.8	2966.4	2845.4	2761.1	2695.1	2724.4
52.5°	13116.1	11271.7	5830.2	2970.1	2812.4	2816.1	2841.8	2753.8	2658.4	2618.1	2654.8
55°	13695.5	11290.1	5192.2	2687.8	2665.8	2691.4	2691.4	2632.8	2552.1	2519.1	2500.8
56°	13222.5	10743.7	4656.8	2614.4	2592.4	2592.4	2662.1	2596.1	2497.1	2471.4	2449.4
57.5°	12195.8	9412.7	3897.8	2526.4	2493.4	2544.8	2581.4	2511.8	2420.1	2383.4	2405.4
60°	8411.6	6369.2	2929.8	2335.7	2335.7	2420.1	2449.4	2346.7	2306.4	2302.7	2273.4
62.5°	4909.8	3710.8	2291.7	2163.4	2170.7	2240.4	2262.4	2203.7	2152.4	2214.7	2244.1
65°	2603.4	2214.7	1965.4	1980.1	1983.7	2038.7	2134.1	2130.4	2126.7	2145.1	2148.7
67.5°	1884.7	1840.7	1785.7	1771.1	1778.4	1818.7	1914.1	1987.4	1983.7	1939.7	1906.7
70°	1679.4	1617.1	1584.1	1587.7	1558.4	1606.1	1683.1	1730.7	1646.4	1595.1	1573.1
72.5°	1397.0	1378.7	1356.7	1360.4	1301.7	1290.7	1202.7	1202.7	1180.7	1166.0	1191.7
75°	1067.0	1059.7	1070.7	1052.4	990.0	924.0	872.7	825.0	751.7	722.4	707.7
77.5°	674.7	696.7	722.4	682.0	656.4	608.7	557.4	509.7	451.0	418.0	418.0
80°	458.3	476.7	495.0	487.7	458.3	414.3	374.0	322.7	282.3	256.7	253.0
82.5°	348.3	363.0	388.7	359.3	330.0	293.3	260.3	223.7	187.0	157.7	157.7
85°	124.7	143.0	157.7	172.3	183.3	187.0	161.3	132.0	106.3	84.3	80.7
87.5°	33.0	36.7	40.3	36.7	36.7	36.7	40.3	36.7	33.0	25.7	25.7
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)