

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: P528552

Luminaire Tested: **GALN-SA3C-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12941 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

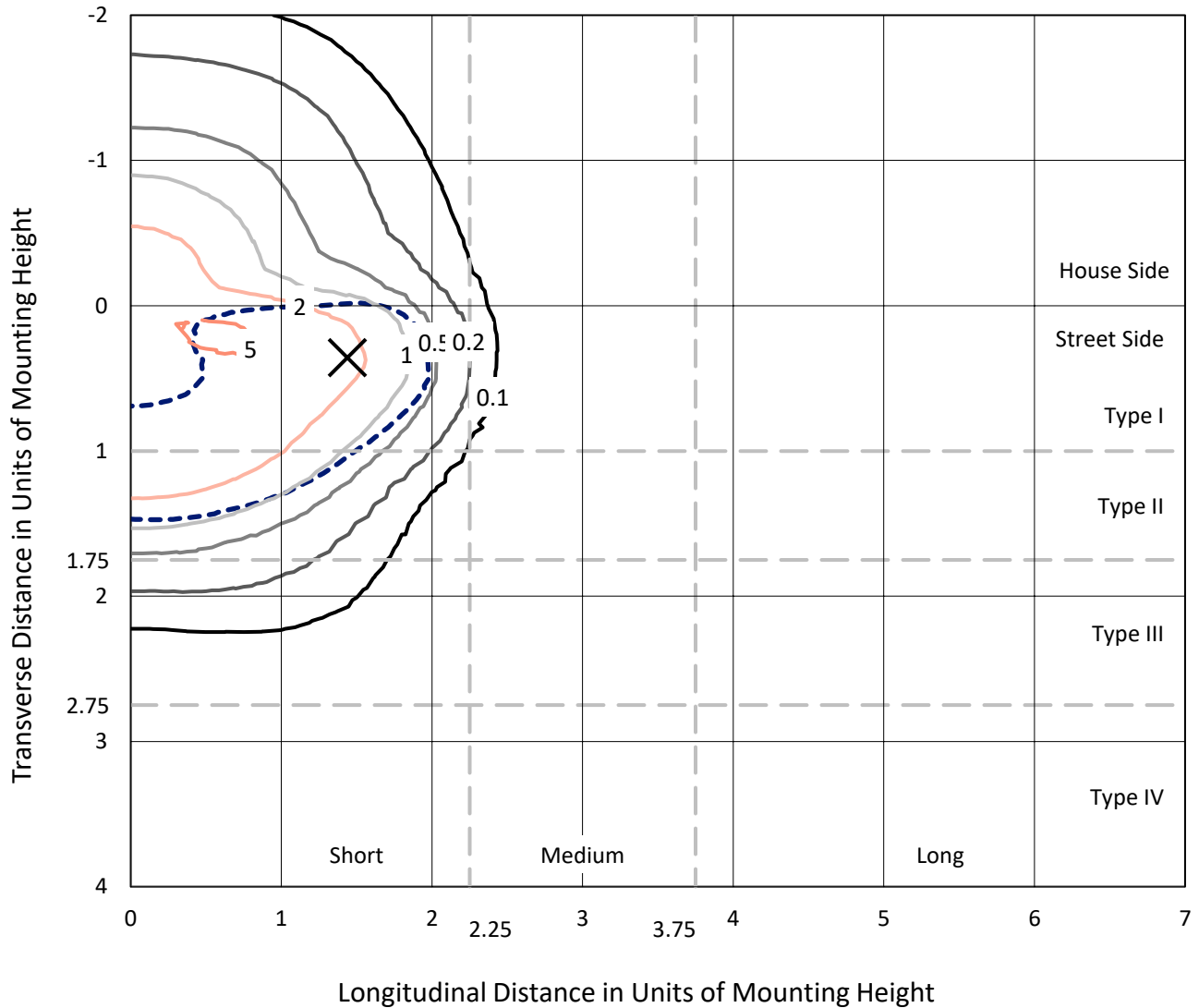
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

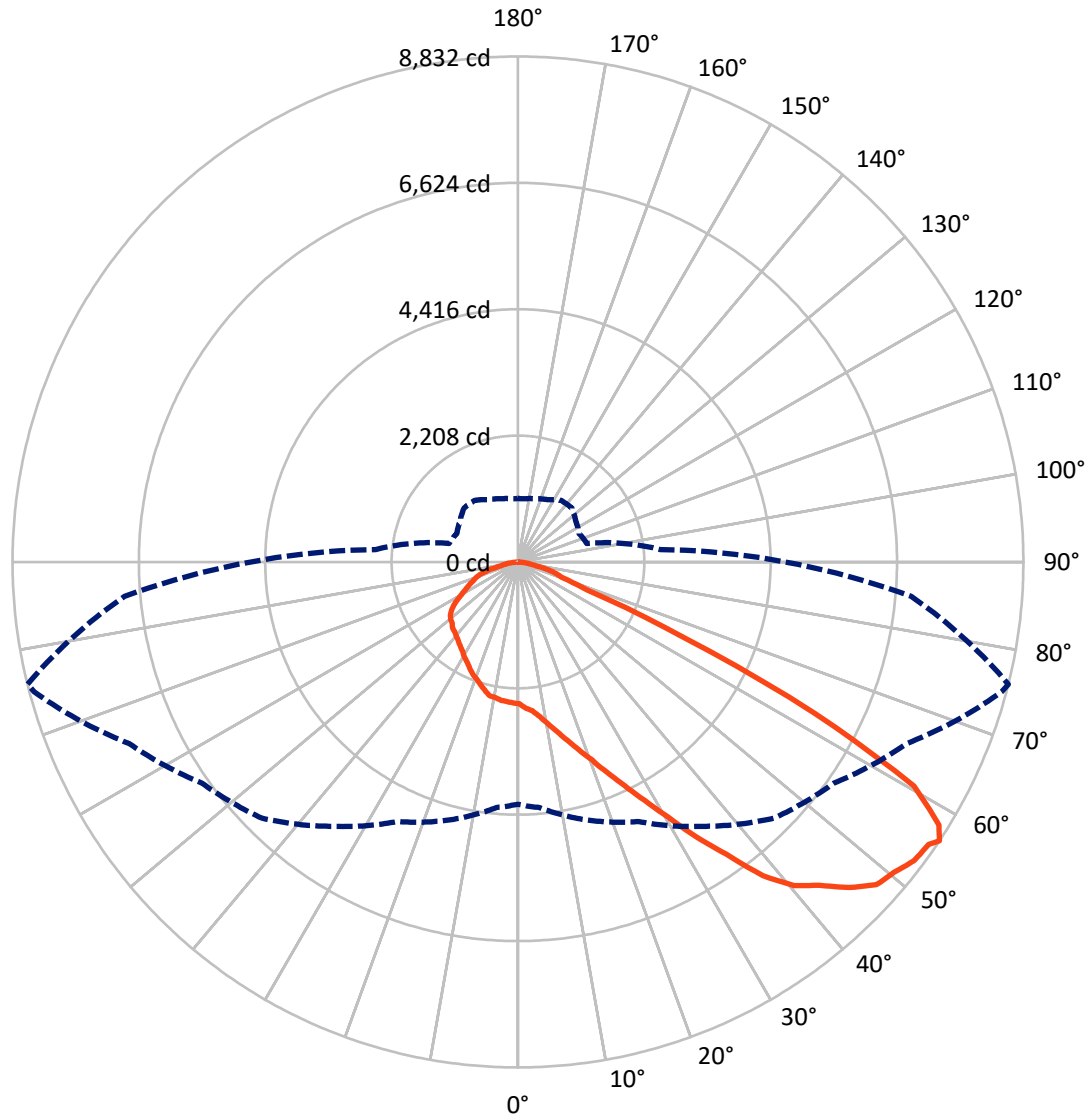
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	3479.4	0.0	3479.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	9461.6	0.0	9461.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	12941.0	0.0	12941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	1.9
10°-20°	771.4	6.0
20°-30°	1349.0	10.4
30°-40°	2112.2	16.3
40°-50°	3072.6	23.7
50°-60°	3377.0	26.1
60°-70°	1507.3	11.6
70°-80°	435.4	3.4
80°-90°	70.6	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°	12941.0	100.0
0°-180°	12941.0	100.0

Coefficient of Utilization



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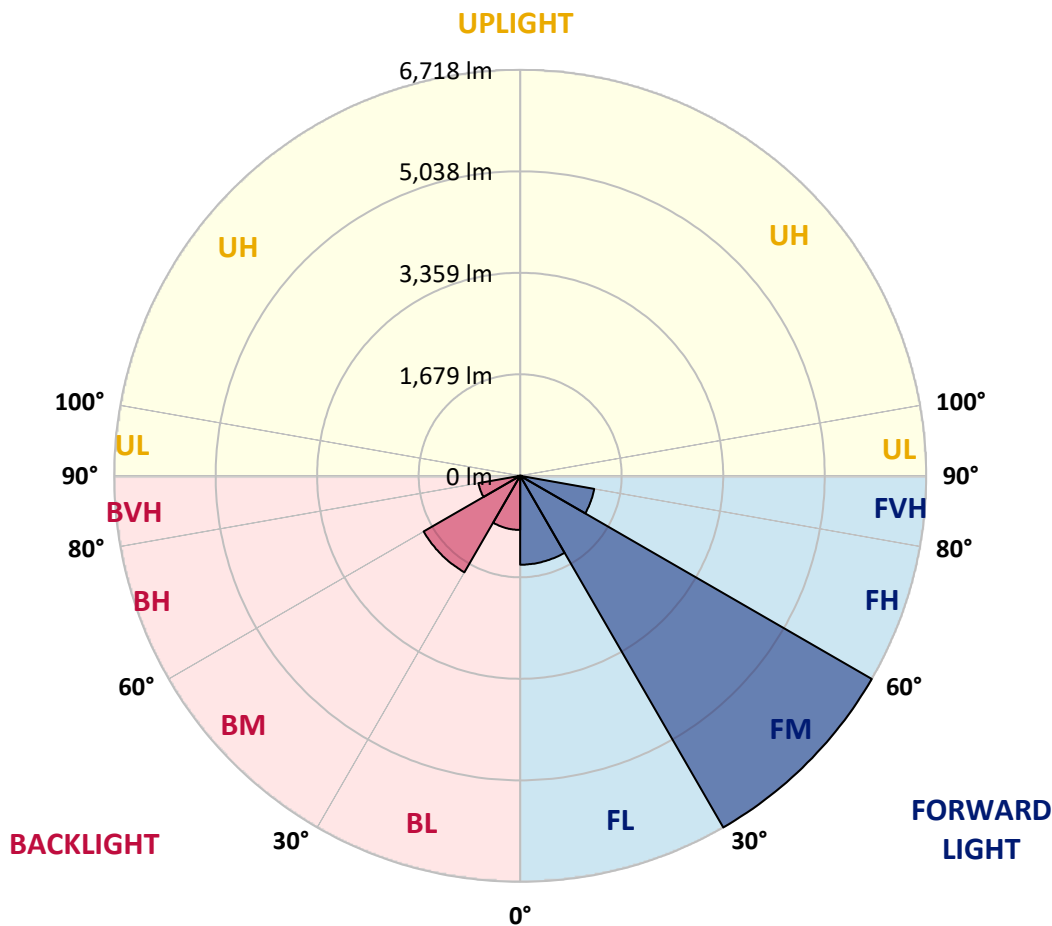
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1470.6	11.4			
FM (30°-60°)	6717.9	51.9			
FH (60°-80°)	1242.6	9.6			G1/1800
FVH (80°-90°)	30.4	0.2			G1/100
BL (0°-30°)	895.3	6.9	B2/1000		
BM (30°-60°)	1843.8	14.2	B2/2500		
BH (60°-80°)	700.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	40.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2476.1	2476.1	2476.1	2476.1	2476.1	2476.1	2476.1	2476.1	2476.1	2476.1	2476.1
2.5°	2727.7	2684.1	2680.8	2669.0	2675.7	2645.5	2613.7	2571.7	2528.1	2554.9	2491.2
5°	2919.0	2860.3	2883.7	2843.5	2848.5	2808.3	2742.8	2694.2	2640.5	2608.6	2563.3
7.5°	2986.1	2991.1	3007.9	3001.2	2967.6	2967.6	2924.0	2838.4	2744.5	2726.1	2650.6
10°	3076.7	3078.3	3059.9	3064.9	3111.9	3090.1	3051.5	3014.6	2893.8	2872.0	2737.8
12.5°	3108.5	3078.3	3108.5	3135.4	3190.7	3220.9	3212.5	3185.7	3056.5	3041.4	2845.2
15°	3113.6	3095.1	3120.3	3180.7	3229.3	3356.8	3420.6	3402.1	3231.0	3232.7	2965.9
17.5°	3090.1	3115.2	3125.3	3177.3	3289.7	3408.8	3593.4	3618.5	3477.6	3455.8	3118.6
20°	3122.0	3103.5	3116.9	3163.9	3313.2	3499.4	3741.0	3907.1	3709.1	3694.0	3276.3
22.5°	3244.4	3219.3	3215.9	3246.1	3353.5	3546.4	3897.0	4195.6	3990.9	3999.3	3472.6
25°	3340.0	3353.5	3341.7	3340.0	3407.1	3616.8	4103.3	4539.5	4373.4	4324.8	3704.1
27.5°	3504.4	3536.3	3512.8	3544.7	3529.6	3722.5	4251.0	4920.3	4786.1	4720.7	3913.8
30°	3732.6	3749.4	3727.6	3727.6	3682.3	3870.2	4385.2	5317.9	5262.5	5173.6	4160.4
32.5°	4032.9	4058.0	4014.4	3989.3	3982.6	4089.9	4626.7	5710.5	5804.4	5728.9	4487.5
35°	4430.5	4415.4	4363.4	4339.9	4249.3	4427.1	4985.7	6161.7	6408.3	6274.1	4883.4
37.5°	4781.1	4757.6	4754.2	4623.4	4645.2	4791.1	5291.1	6503.9	6993.8	6955.2	5301.1
40°	5108.2	5130.0	5165.2	5091.4	5057.9	5218.9	5646.7	6765.6	7448.4	7433.3	5623.2
42.5°	5458.8	5438.7	5500.8	5438.7	5388.4	5616.5	6032.5	6946.8	7847.7	7723.5	5960.4
45°	5967.1	5903.4	5925.2	5930.2	5893.3	5977.2	6191.9	7077.7	8127.8	8114.4	6207.0
47.5°	6391.5	6393.2	6356.3	6327.8	6215.4	6299.3	6369.7	7159.9	8449.9	8428.1	6302.6
50°	6549.2	6527.4	6634.8	6696.9	6703.6	6532.5	6509.0	7205.2	8619.4	8523.7	6398.3
52.5°	5982.2	6002.3	6171.8	6540.8	6753.9	6772.4	6671.7	7299.1	8688.1	8668.0	6475.4
55°	4814.6	4911.9	5190.4	5616.5	6121.5	6676.7	6847.8	7396.4	8725.0	8708.3	6817.6
56°	4232.5	4308.0	4670.4	5004.2	5638.3	6329.5	6737.1	7500.4	8753.6	8832.4	6898.2
57.5°	3407.1	3494.4	3754.4	4133.5	4881.7	5668.5	6431.8	7372.9	8642.8	8673.0	6956.9
60°	2130.5	2138.9	2450.9	2700.9	3227.6	3996.0	4908.6	6415.0	7998.7	7955.0	6249.0
62.5°	1397.4	1399.1	1682.6	1887.3	2127.2	2303.3	2888.8	4254.3	5901.7	5824.5	4448.9
65°	981.4	1003.2	1222.9	1496.4	1593.7	1501.4	1483.0	2242.9	3296.4	3185.7	2390.5
67.5°	718.0	719.7	914.3	1207.9	1348.8	1142.4	927.7	1095.5	1305.1	1301.8	1107.2
70°	474.8	494.9	644.2	902.5	1063.6	917.6	758.3	783.4	830.4	830.4	823.7
72.5°	276.8	295.3	394.2	572.1	597.2	573.7	600.6	671.0	701.2	699.5	691.2
75°	157.7	166.1	187.9	238.2	296.9	350.6	441.2	508.3	538.5	557.0	535.1
77.5°	92.3	97.3	110.7	135.9	154.3	189.6	239.9	286.9	327.1	322.1	325.4
80°	48.6	48.6	62.1	80.5	107.4	134.2	159.4	186.2	208.0	213.1	218.1
82.5°	28.5	30.2	40.3	58.7	77.2	95.6	122.5	140.9	161.0	162.7	166.1
85°	15.1	16.8	25.2	38.6	52.0	58.7	60.4	57.0	62.1	58.7	67.1
87.5°	5.0	5.0	8.4	6.7	6.7	8.4	10.1	10.1	13.4	13.4	13.4
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°	2476.1	2476.1	2476.1	2476.1	2476.1	2476.1	2476.1	2476.1	2476.1	2476.1	2476.1
2.5°	2489.5	2489.5	2461.0	2407.3	2398.9	2377.1	2357.0	2355.3	2340.2	2326.8	2320.1
5°	2536.5	2484.5	2442.5	2393.9	2336.9	2310.0	2279.8	2246.3	2232.8	2246.3	2244.6
7.5°	2590.2	2546.6	2420.7	2330.1	2264.7	2237.9	2204.3	2169.1	2172.5	2172.5	2149.0
10°	2642.2	2583.5	2382.2	2266.4	2170.8	2150.6	2132.2	2145.6	2162.4	2165.7	2150.6
12.5°	2729.4	2596.9	2363.7	2202.7	2142.3	2098.6	2110.4	2147.3	2182.5	2172.5	2184.2
15°	2794.8	2608.6	2279.8	2137.2	2061.7	2081.9	2123.8	2149.0	2207.7	2201.0	2212.7
17.5°	2858.6	2615.3	2197.6	2050.0	2018.1	2073.5	2105.4	2177.5	2195.9	2236.2	2251.3
20°	2989.4	2628.8	2113.7	1996.3	1986.2	2050.0	2105.4	2138.9	2179.2	2214.4	2214.4
22.5°	3056.5	2622.0	2058.4	1925.9	1957.7	1998.0	2048.3	2105.4	2105.4	2138.9	2140.6
25°	3140.4	2595.2	1971.1	1892.3	1915.8	1954.4	2011.4	1991.3	2013.1	2013.1	2039.9
27.5°	3236.0	2538.2	1895.7	1831.9	1878.9	1920.8	1929.2	1915.8	1890.6	1887.3	1877.2
30°	3313.2	2467.7	1840.3	1811.8	1850.4	1873.8	1847.0	1818.5	1774.9	1771.5	1748.0
32.5°	3418.9	2380.5	1771.5	1761.4	1805.1	1806.7	1798.4	1754.7	1691.0	1664.2	1637.3
35°	3596.7	2330.1	1719.5	1734.6	1748.0	1743.0	1727.9	1680.9	1617.2	1605.4	1595.4
37.5°	3727.6	2293.2	1665.8	1684.3	1696.0	1702.7	1657.4	1605.4	1607.1	1583.6	1576.9
40°	3875.2	2269.8	1622.2	1630.6	1632.3	1654.1	1598.7	1573.6	1585.3	1570.2	1580.3
42.5°	4064.8	2276.5	1576.9	1570.2	1602.1	1593.7	1566.9	1533.3	1540.0	1494.7	1501.4
45°	4165.4	2321.8	1550.1	1519.9	1555.1	1553.4	1518.2	1486.3	1446.1	1358.8	1362.2
47.5°	4232.5	2333.5	1486.3	1466.2	1503.1	1524.9	1484.6	1410.8	1353.8	1291.7	1276.6
50°	4301.3	2355.3	1456.1	1414.2	1429.3	1481.3	1431.0	1360.5	1305.1	1249.8	1258.2
52.5°	4361.7	2397.2	1397.4	1335.3	1362.2	1419.2	1392.4	1306.8	1246.4	1201.1	1187.7
55°	4630.1	2491.2	1298.4	1217.9	1281.7	1353.8	1338.7	1234.7	1169.3	1145.8	1142.4
56°	4672.0	2494.5	1246.4	1177.7	1236.4	1332.0	1313.5	1202.8	1144.1	1107.2	1108.9
57.5°	4678.7	2454.3	1172.6	1140.7	1191.1	1300.1	1276.6	1177.7	1097.1	1063.6	1053.5
60°	4116.8	1915.8	1080.4	1060.2	1118.9	1202.8	1194.4	1108.9	1018.3	979.7	998.2
62.5°	2806.6	1404.1	1008.2	1004.9	1035.1	1117.3	1095.5	1018.3	942.8	917.6	905.9
65°	1634.0	1065.3	937.8	924.3	949.5	993.1	1008.2	927.7	848.9	832.1	827.0
67.5°	964.6	880.7	847.2	825.4	817.0	843.8	855.6	808.6	729.7	706.3	726.4
70°	806.9	783.4	785.1	748.2	728.1	709.6	699.5	657.6	592.2	562.0	553.6
72.5°	696.2	686.1	679.4	645.9	627.4	585.5	541.9	499.9	451.3	426.1	427.8
75°	531.8	528.4	531.8	515.0	483.1	449.6	409.3	355.6	318.7	286.9	293.6
77.5°	317.1	327.1	332.2	325.4	312.0	281.8	256.7	221.4	186.2	161.0	157.7
80°	218.1	226.5	234.9	226.5	213.1	191.2	164.4	137.6	112.4	99.0	95.6
82.5°	166.1	174.5	179.5	171.1	154.3	130.9	112.4	93.9	73.8	60.4	57.0
85°	60.4	68.8	67.1	80.5	87.2	83.9	72.1	55.4	41.9	30.2	28.5
87.5°	16.8	15.1	16.8	16.8	16.8	15.1	13.4	13.4	13.4	8.4	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

(END OF REPORT)