

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: P529020

Luminaire Tested: **GALN-SA4A-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529020
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-SA4A-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA 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: 11155 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

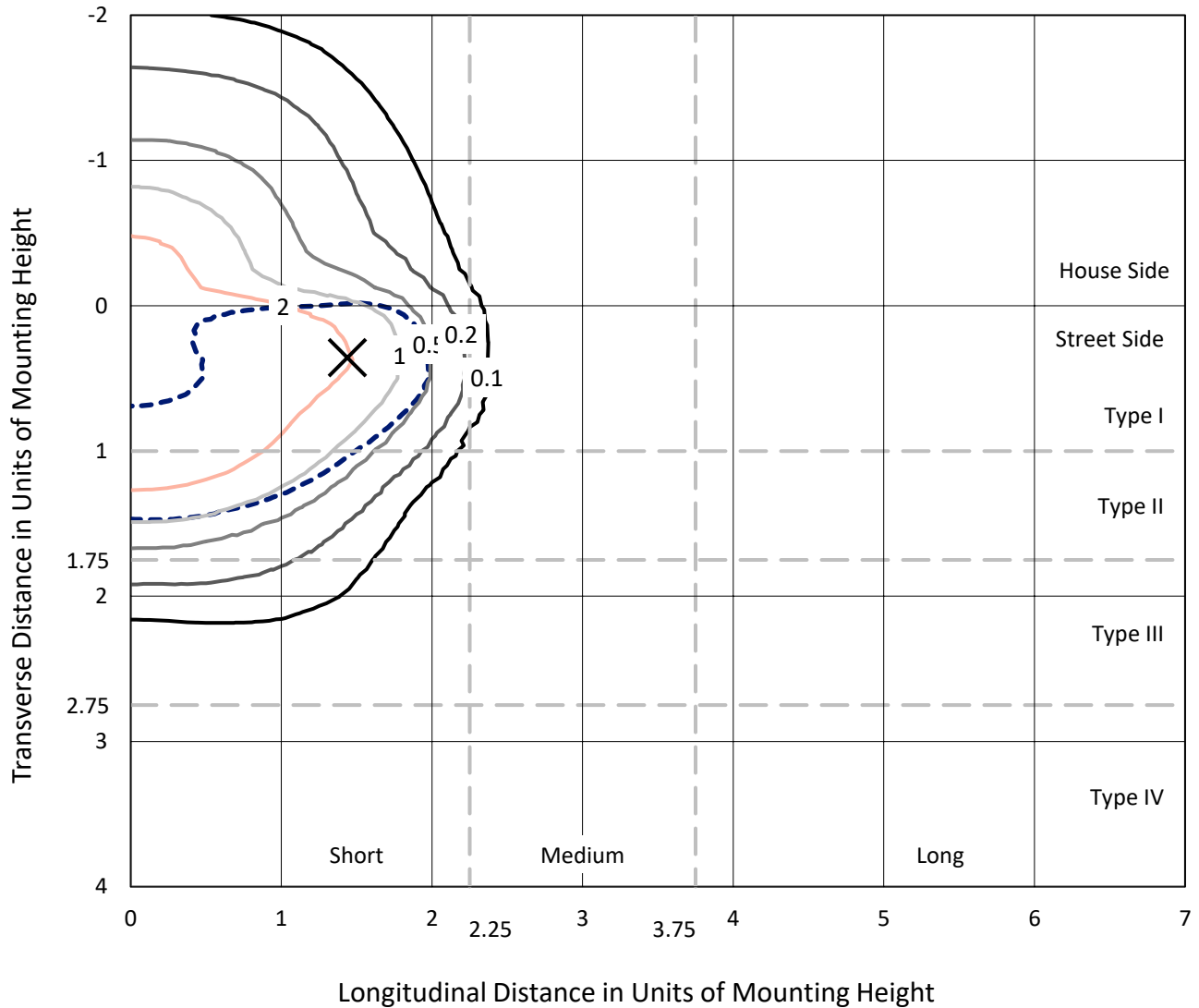
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

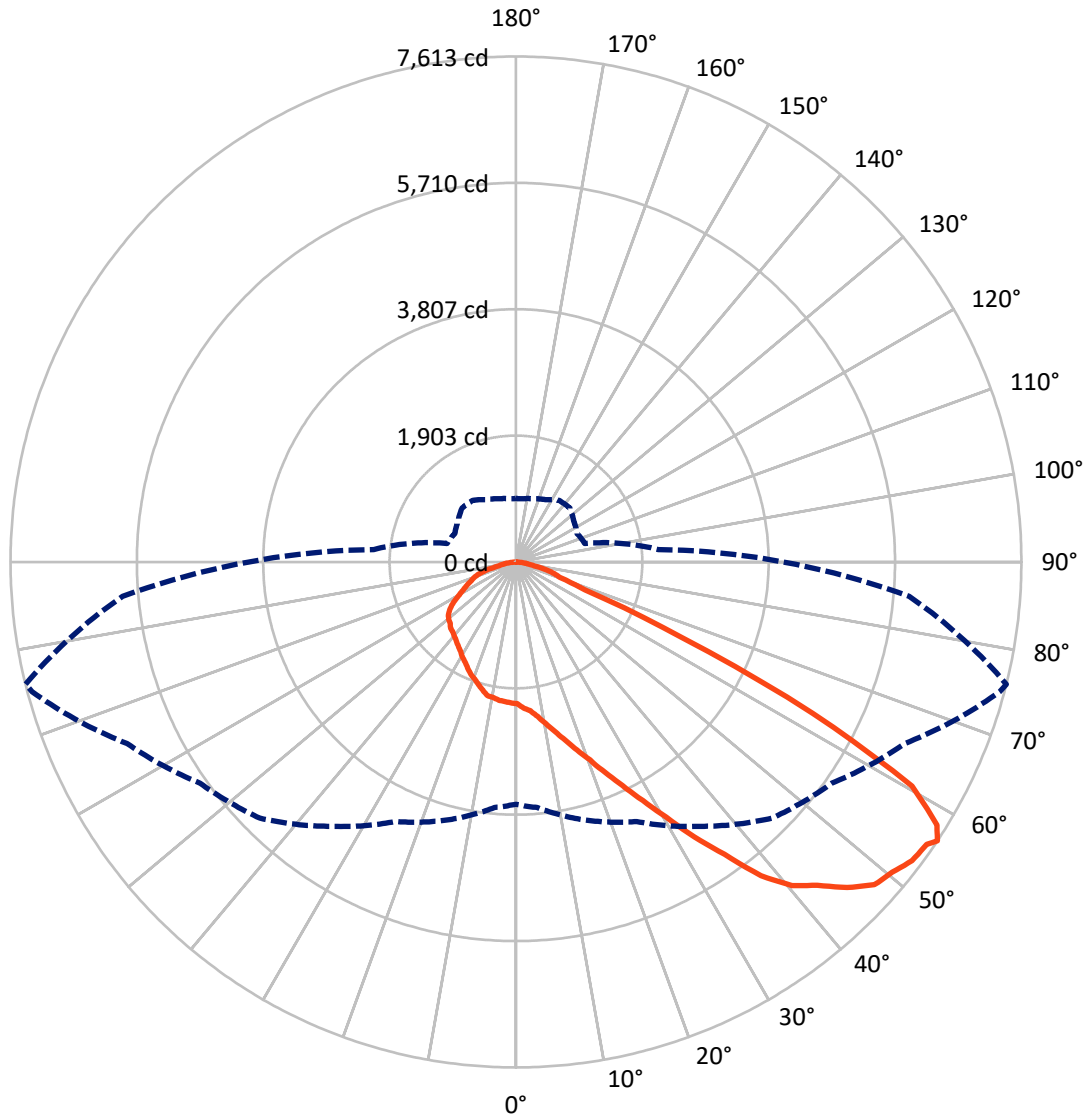
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2999.3	0.0	2999.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	8155.8	0.0	8155.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	11155.0	0.0	11155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	1.9
10°-20°	664.9	6.0
20°-30°	1162.8	10.4
30°-40°	1820.7	16.3
40°-50°	2648.5	23.7
50°-60°	2910.9	26.1
60°-70°	1299.3	11.6
70°-80°	375.3	3.4
80°-90°	60.9	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°	11155.0	100.0
0°-180°	11155.0	100.0

Coefficient of Utilization



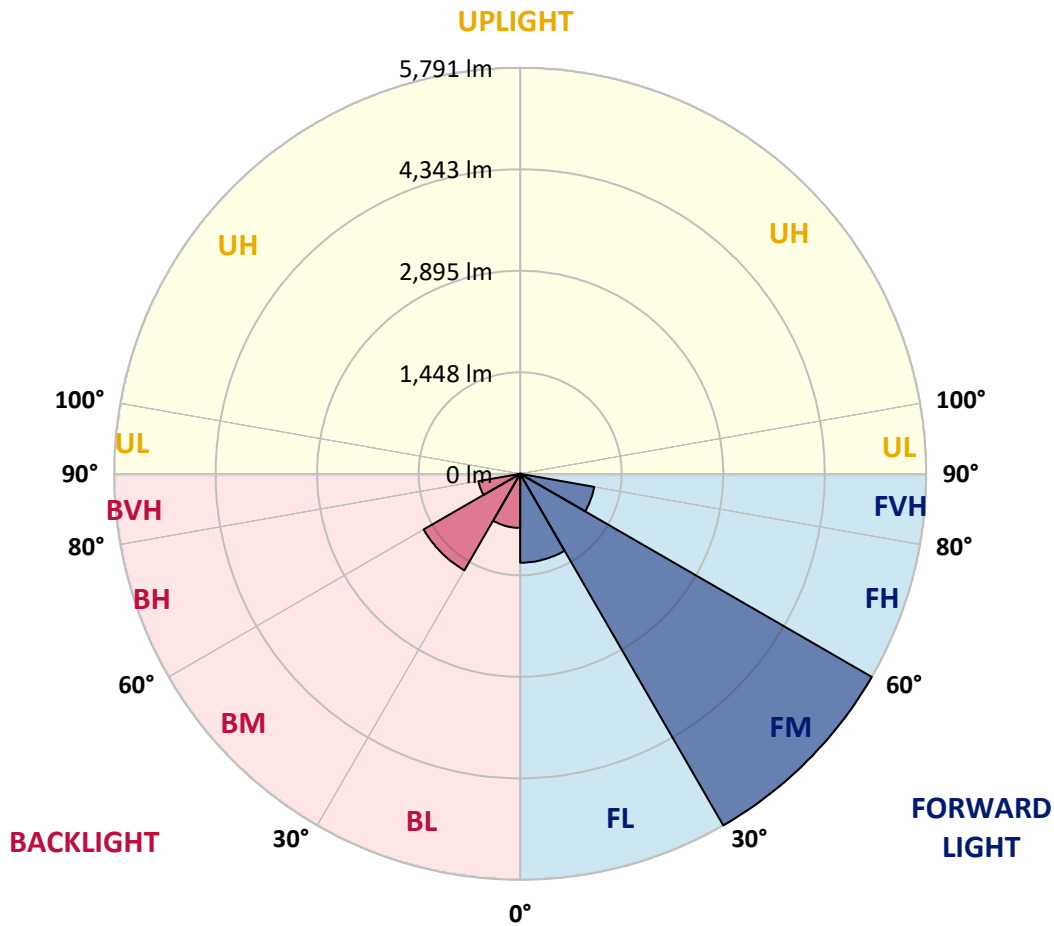
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1267.6	11.4			
FM (30°-60°)	5790.8	51.9			
FH (60°-80°)	1071.1	9.6			G1/1800
FVH (80°-90°)	26.2	0.2			G1/100
BL (0°-30°)	771.8	6.9	B2/1000		
BM (30°-60°)	1589.4	14.2	B2/2500		
BH (60°-80°)	603.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	34.7	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°	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4
2.5°	2351.3	2313.7	2310.8	2300.7	2306.4	2280.4	2252.9	2216.8	2179.2	2202.3	2147.4
5°	2516.1	2465.5	2485.8	2451.1	2455.4	2420.7	2364.3	2322.4	2276.1	2248.6	2209.6
7.5°	2574.0	2578.3	2592.8	2587.0	2558.1	2558.1	2520.5	2446.7	2365.7	2349.8	2284.8
10°	2652.1	2653.5	2637.6	2641.9	2682.4	2663.6	2630.4	2598.5	2494.4	2475.6	2359.9
12.5°	2679.5	2653.5	2679.5	2702.7	2750.4	2776.4	2769.2	2746.0	2634.7	2621.7	2452.5
15°	2683.9	2668.0	2689.6	2741.7	2783.6	2893.5	2948.5	2932.6	2785.1	2786.5	2556.6
17.5°	2663.6	2685.3	2694.0	2738.8	2835.7	2938.4	3097.4	3119.1	2997.7	2978.9	2688.2
20°	2691.1	2675.2	2686.8	2727.2	2855.9	3016.5	3224.7	3367.8	3197.2	3184.2	2824.1
22.5°	2796.7	2775.0	2772.1	2798.1	2890.6	3056.9	3359.2	3616.6	3440.1	3447.4	2993.3
25°	2879.1	2890.6	2880.5	2879.1	2936.9	3117.7	3537.0	3913.0	3769.8	3727.9	3192.9
27.5°	3020.8	3048.3	3028.0	3055.5	3042.5	3208.8	3664.3	4241.3	4125.6	4069.2	3373.6
30°	3217.5	3231.9	3213.1	3213.1	3174.1	3336.0	3780.0	4584.0	4536.3	4459.6	3586.2
32.5°	3476.3	3498.0	3460.4	3438.7	3432.9	3525.5	3988.2	4922.3	5003.3	4938.3	3868.2
35°	3819.0	3806.0	3761.2	3740.9	3662.8	3816.1	4297.7	5311.3	5523.9	5408.2	4209.4
37.5°	4121.2	4101.0	4098.1	3985.3	4004.1	4129.9	4560.8	5606.3	6028.6	5995.3	4569.5
40°	4403.2	4422.0	4452.4	4388.8	4359.8	4498.7	4867.4	5831.9	6420.5	6407.4	4847.2
42.5°	4705.4	4688.1	4741.6	4688.1	4644.7	4841.4	5200.0	5988.1	6764.6	6657.6	5137.8
45°	5143.6	5088.6	5107.4	5111.8	5080.0	5152.3	5337.4	6100.9	7006.1	6994.5	5350.4
47.5°	5509.4	5510.9	5479.1	5454.5	5357.6	5429.9	5490.6	6171.7	7283.7	7264.9	5432.8
50°	5645.4	5626.6	5719.1	5772.6	5778.4	5630.9	5610.7	6210.8	7429.8	7347.4	5515.2
52.5°	5156.6	5174.0	5320.0	5638.1	5821.8	5837.7	5750.9	6291.8	7489.1	7471.7	5581.7
55°	4150.2	4234.0	4474.1	4841.4	5276.6	5755.3	5902.8	6375.6	7520.9	7506.4	5876.7
56°	3648.4	3713.4	4025.8	4313.6	4860.2	5455.9	5807.3	6465.3	7545.5	7613.4	5946.1
57.5°	2936.9	3012.1	3236.3	3563.1	4208.0	4886.2	5544.1	6355.4	7450.0	7476.1	5996.8
60°	1836.5	1843.7	2112.7	2328.1	2782.2	3444.5	4231.1	5529.7	6894.8	6857.2	5386.5
62.5°	1204.6	1206.0	1450.4	1626.8	1833.6	1985.4	2490.1	3667.2	5087.2	5020.7	3834.9
65°	845.9	864.7	1054.2	1289.9	1373.7	1294.2	1278.3	1933.4	2841.5	2746.0	2060.6
67.5°	618.9	620.4	788.1	1041.2	1162.6	984.8	799.7	944.3	1125.0	1122.1	954.4
70°	409.2	426.6	555.3	778.0	916.8	791.0	653.6	675.3	715.8	715.8	710.0
72.5°	238.6	254.5	339.8	493.1	514.8	494.5	517.7	578.4	604.4	603.0	595.8
75°	135.9	143.2	162.0	205.3	256.0	302.2	380.3	438.2	464.2	480.1	461.3
77.5°	79.5	83.9	95.4	117.1	133.0	163.4	206.8	247.3	282.0	277.6	280.5
80°	41.9	41.9	53.5	69.4	92.5	115.7	137.4	160.5	179.3	183.6	188.0
82.5°	24.6	26.0	34.7	50.6	66.5	82.4	105.6	121.5	138.8	140.3	143.2
85°	13.0	14.5	21.7	33.3	44.8	50.6	52.1	49.2	53.5	50.6	57.8
87.5°	4.3	4.3	7.2	5.8	5.8	7.2	8.7	8.7	11.6	11.6	11.6
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°	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4
2.5°	2145.9	2145.9	2121.4	2075.1	2067.8	2049.0	2031.7	2030.3	2017.2	2005.7	1999.9
5°	2186.4	2141.6	2105.4	2063.5	2014.3	1991.2	1965.2	1936.3	1924.7	1936.3	1934.8
7.5°	2232.7	2195.1	2086.6	2008.6	1952.2	1929.0	1900.1	1869.7	1872.6	1872.6	1852.4
10°	2277.5	2226.9	2053.4	1953.6	1871.2	1853.8	1837.9	1849.5	1864.0	1866.8	1853.8
12.5°	2352.7	2238.5	2037.5	1898.7	1846.6	1809.0	1819.1	1850.9	1881.3	1872.6	1882.8
15°	2409.1	2248.6	1965.2	1842.3	1777.2	1794.5	1830.7	1852.4	1903.0	1897.2	1907.3
17.5°	2464.1	2254.4	1894.3	1767.1	1739.6	1787.3	1814.8	1877.0	1892.9	1927.6	1940.6
20°	2576.9	2266.0	1822.0	1720.8	1712.1	1767.1	1814.8	1843.7	1878.4	1908.8	1908.8
22.5°	2634.7	2260.2	1774.3	1660.1	1687.5	1722.2	1765.6	1814.8	1814.8	1843.7	1845.2
25°	2707.0	2237.0	1699.1	1631.1	1651.4	1684.6	1733.8	1716.5	1735.3	1735.3	1758.4
27.5°	2789.4	2187.9	1634.0	1579.1	1619.6	1655.7	1663.0	1651.4	1629.7	1626.8	1618.1
30°	2855.9	2127.1	1586.3	1561.7	1595.0	1615.2	1592.1	1567.5	1529.9	1527.0	1506.8
32.5°	2947.0	2051.9	1527.0	1518.3	1555.9	1557.4	1550.2	1512.6	1457.6	1434.5	1411.3
35°	3100.3	2008.6	1482.2	1495.2	1506.8	1502.4	1489.4	1448.9	1394.0	1383.9	1375.2
37.5°	3213.1	1976.7	1435.9	1451.8	1462.0	1467.7	1428.7	1383.9	1385.3	1365.1	1359.3
40°	3340.4	1956.5	1398.3	1405.6	1407.0	1425.8	1378.1	1356.4	1366.5	1353.5	1362.2
42.5°	3503.8	1962.3	1359.3	1353.5	1381.0	1373.7	1350.6	1321.7	1327.5	1288.4	1294.2
45°	3590.5	2001.3	1336.1	1310.1	1340.5	1339.0	1308.7	1281.2	1246.5	1171.3	1174.2
47.5°	3648.4	2011.5	1281.2	1263.8	1295.7	1314.5	1279.8	1216.1	1167.0	1113.5	1100.4
50°	3707.7	2030.3	1255.2	1219.0	1232.0	1276.9	1233.5	1172.7	1125.0	1077.3	1084.5
52.5°	3759.7	2066.4	1204.6	1151.1	1174.2	1223.4	1200.2	1126.5	1074.4	1035.4	1023.8
55°	3991.1	2147.4	1119.2	1049.8	1104.8	1167.0	1153.9	1064.3	1007.9	987.7	984.8
56°	4027.2	2150.3	1074.4	1015.1	1065.7	1148.2	1132.3	1036.8	986.2	954.4	955.8
57.5°	4033.0	2115.6	1010.8	983.3	1026.7	1120.7	1100.4	1015.1	945.7	916.8	908.1
60°	3548.6	1651.4	931.3	913.9	964.5	1036.8	1029.6	955.8	877.8	844.5	860.4
62.5°	2419.2	1210.3	869.1	866.2	892.2	963.1	944.3	877.8	812.7	791.0	780.9
65°	1408.5	918.2	808.3	796.8	818.5	856.1	869.1	799.7	731.7	717.2	712.9
67.5°	831.5	759.2	730.3	711.5	704.2	727.4	737.5	697.0	629.0	608.8	626.1
70°	695.5	675.3	676.8	644.9	627.6	611.7	603.0	566.9	510.5	484.4	477.2
72.5°	600.1	591.4	585.6	556.7	540.8	504.7	467.1	430.9	389.0	367.3	368.7
75°	458.4	455.5	458.4	443.9	416.5	387.5	352.8	306.6	274.7	247.3	253.1
77.5°	273.3	282.0	286.3	280.5	269.0	242.9	221.2	190.9	160.5	138.8	135.9
80°	188.0	195.2	202.4	195.2	183.6	164.8	141.7	118.6	96.9	85.3	82.4
82.5°	143.2	150.4	154.7	147.5	133.0	112.8	96.9	81.0	63.6	52.1	49.2
85°	52.1	59.3	57.8	69.4	75.2	72.3	62.2	47.7	36.2	26.0	24.6
87.5°	14.5	13.0	14.5	14.5	14.5	13.0	11.6	11.6	11.6	7.2	5.8
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)