

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: P528844

Luminaire Tested: **GALN-SA4A-722-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-722-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11609 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

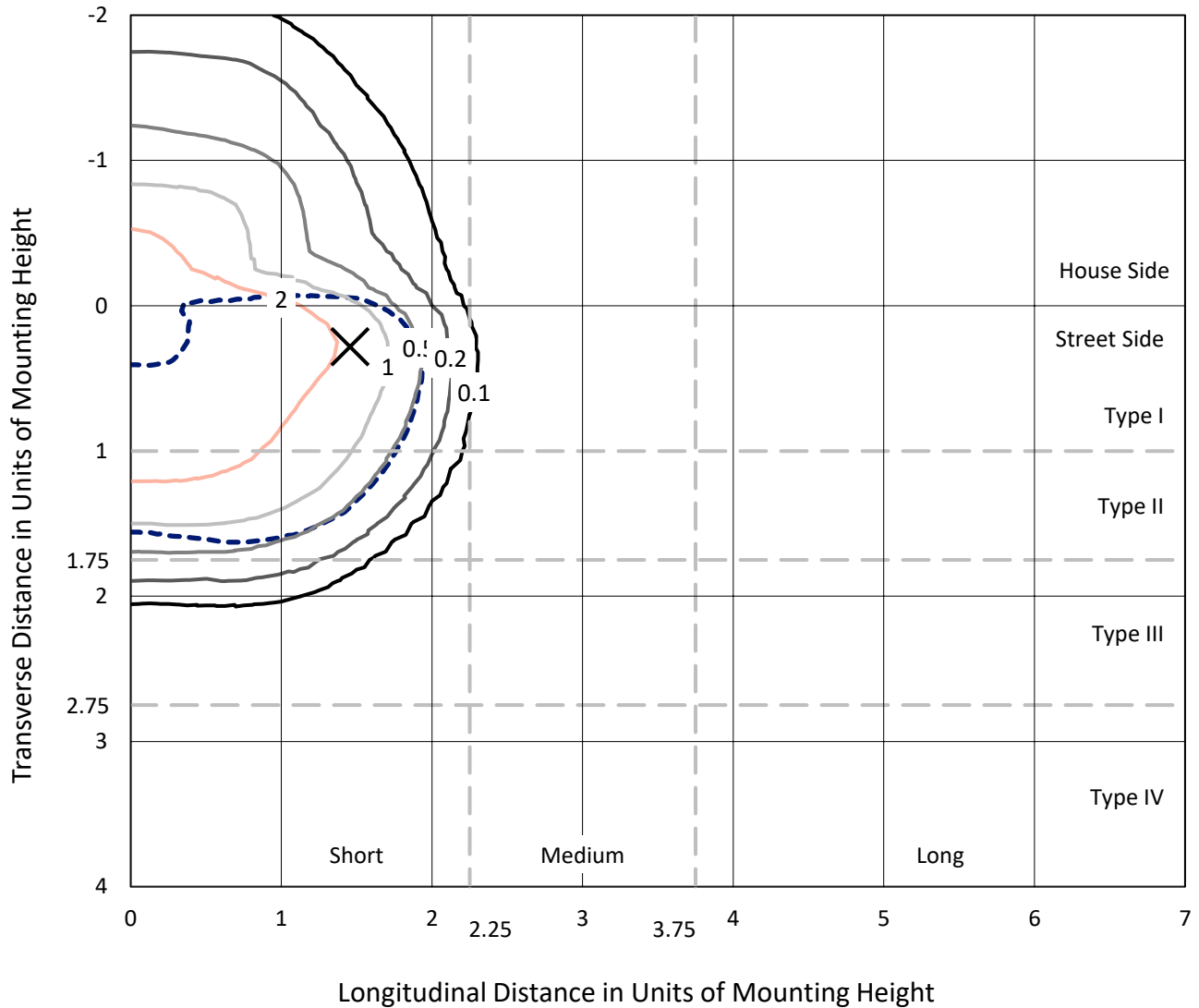
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

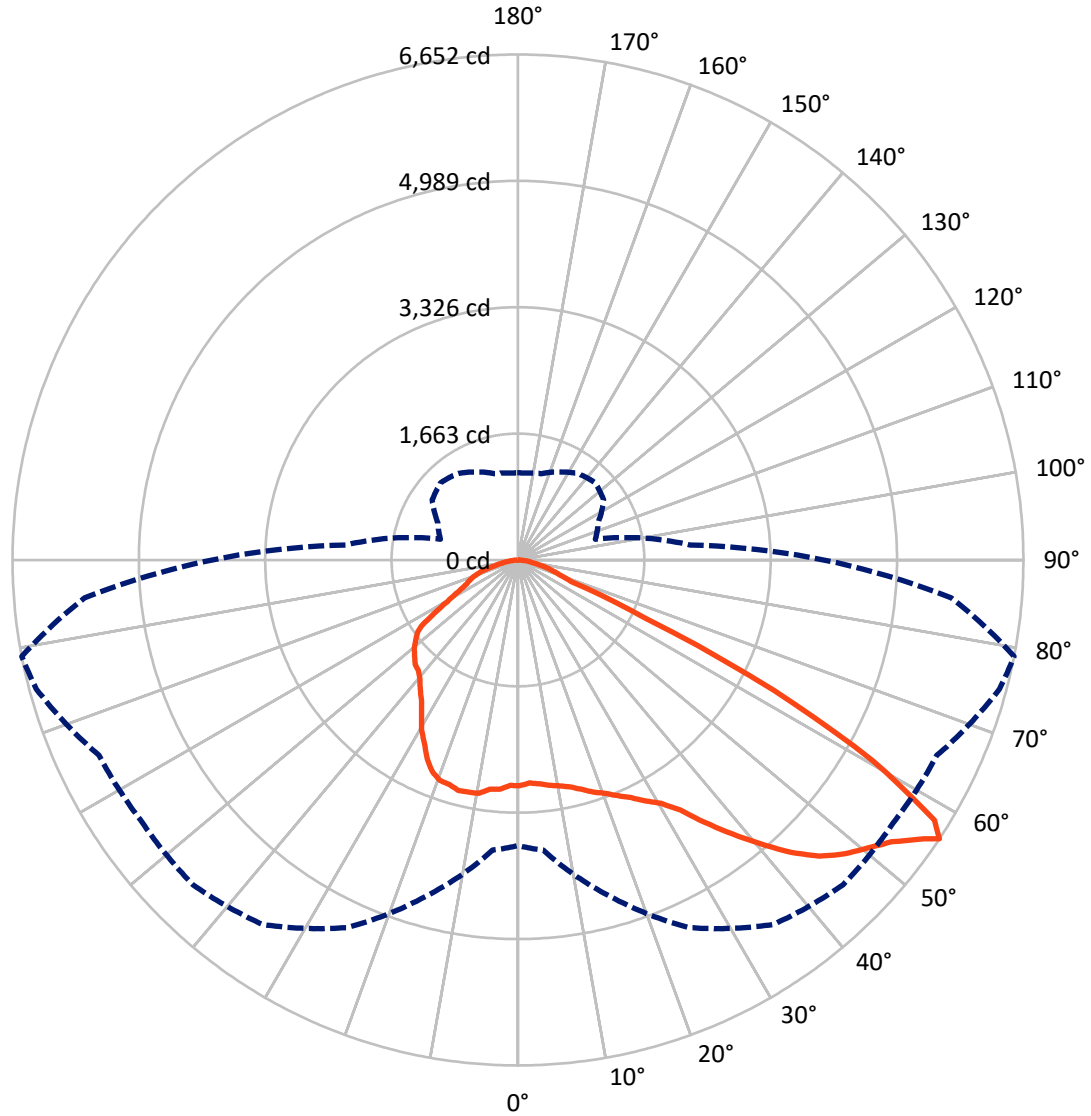
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3428.4	0.0	3428.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	8180.6	0.0	8180.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	11609.0	0.0	11609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.1	2.3
10°-20°	739.1	6.4
20°-30°	1264.4	10.9
30°-40°	1937.9	16.7
40°-50°	2619.0	22.6
50°-60°	3008.0	25.9
60°-70°	1371.1	11.8
70°-80°	338.1	2.9
80°-90°	61.4	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°	11609.0	100.0
0°-180°	11609.0	100.0

Coefficient of Utilization



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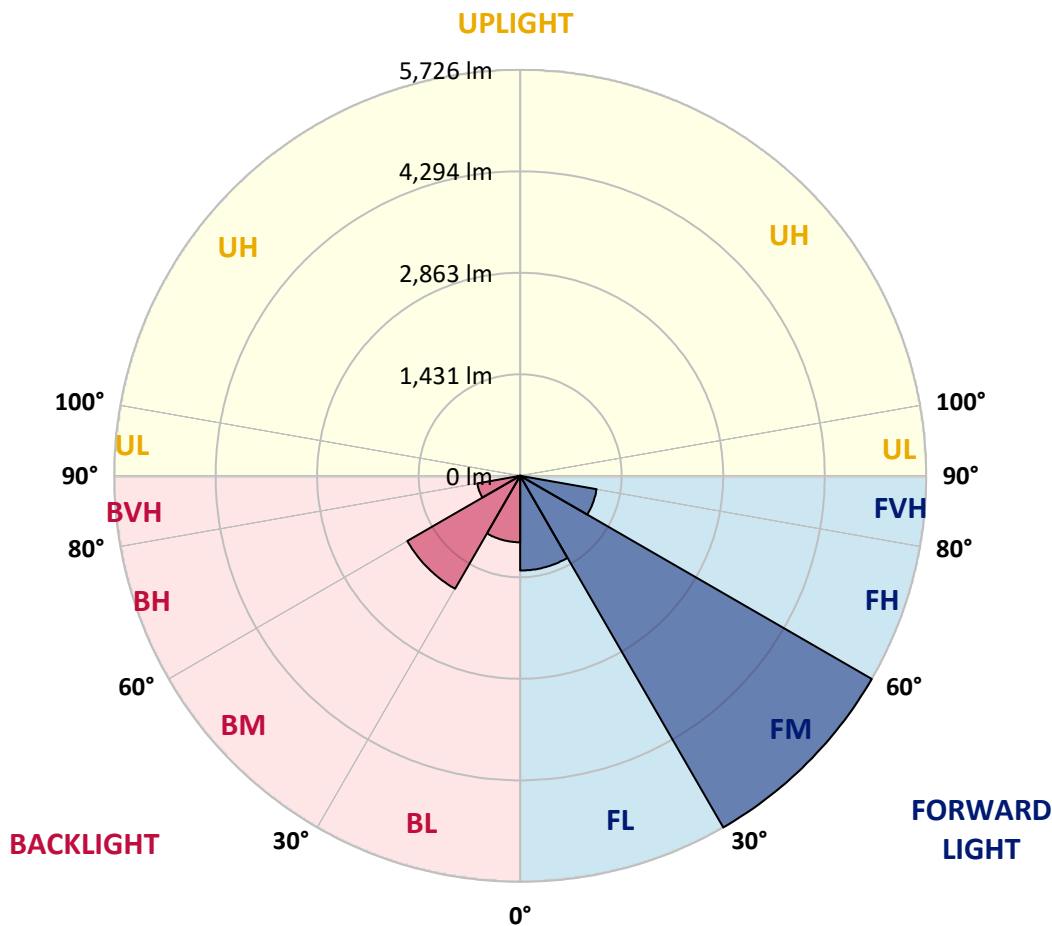
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1335.7	11.5			
FM (30°-60°)	5725.9	49.3			
FH (60°-80°)	1094.5	9.4			G1/1800
FVH (80°-90°)	24.5	0.2			G1/100
BL (0°-30°)	937.8	8.1	B2/1000		
BM (30°-60°)	1838.9	15.8	B2/2500		
BH (60°-80°)	614.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	36.9	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°	79°	85°
0°	2970.3	2970.3	2970.3	2970.3	2970.3	2970.3	2970.3	2970.3	2970.3	2970.3	2970.3
2.5°	2825.7	2818.4	2835.8	2848.8	2864.7	2885.0	2895.1	2900.9	2951.5	2938.5	2977.5
5°	2764.9	2746.1	2759.2	2769.3	2796.8	2821.3	2848.8	2892.2	2938.5	2958.7	3006.4
7.5°	2711.4	2701.3	2698.4	2705.6	2743.2	2775.1	2822.8	2886.4	2961.6	2994.9	3022.3
10°	2623.2	2608.8	2630.5	2678.2	2688.3	2754.8	2809.8	2900.9	2965.9	3023.8	3104.8
12.5°	2584.2	2569.7	2574.1	2601.5	2672.4	2736.0	2801.1	2903.8	3041.1	3064.3	3172.7
15°	2646.4	2631.9	2636.2	2629.0	2697.0	2730.2	2832.9	2961.6	3093.2	3132.2	3247.9
17.5°	2788.1	2789.5	2770.7	2754.8	2738.9	2809.8	2880.6	2996.3	3113.4	3211.8	3298.5
20°	3058.5	3010.8	2973.2	2883.5	2858.9	2889.3	2979.0	3090.3	3195.9	3276.9	3375.2
22.5°	3266.7	3271.1	3217.6	3070.1	3016.6	3029.6	3106.2	3197.3	3313.0	3370.9	3483.6
25°	3569.0	3538.6	3480.8	3363.6	3243.6	3253.7	3310.1	3392.5	3424.4	3464.8	3587.8
27.5°	3845.2	3853.8	3739.6	3629.7	3480.8	3451.8	3553.1	3567.5	3514.0	3590.7	3632.6
30°	4125.7	4118.5	4043.3	3914.6	3768.5	3774.3	3819.1	3748.3	3674.5	3716.5	3745.4
32.5°	4416.4	4334.0	4331.1	4215.4	4104.0	4050.5	3995.6	4030.3	3916.0	3924.7	3897.2
35°	4649.2	4660.8	4594.3	4511.8	4456.9	4362.9	4212.5	4274.7	4253.0	4242.8	4124.3
37.5°	4818.4	4773.6	4806.8	4779.4	4727.3	4610.2	4454.0	4513.3	4523.4	4572.6	4435.2
40°	4957.2	4938.4	5026.6	5041.1	5004.9	4751.9	4471.3	4647.8	4799.6	4906.6	4743.2
42.5°	5023.7	5064.2	5156.8	5268.1	5187.2	4916.7	4561.0	4750.4	5088.8	5258.0	5035.3
45°	5113.4	5061.3	5198.7	5402.6	5404.1	5055.6	4647.8	4889.3	5314.4	5560.2	5234.9
47.5°	5022.3	5048.3	5190.0	5448.9	5515.4	5201.6	4882.0	5085.9	5563.1	5781.5	5420.0
50°	4818.4	4870.5	5129.3	5398.3	5599.3	5356.3	5151.0	5298.5	5793.1	5959.4	5450.3
52.5°	4605.8	4634.7	5039.6	5437.3	5636.9	5555.9	5511.1	5592.1	6073.6	6160.4	5487.9
55°	4027.4	4164.8	4743.2	5420.0	5820.5	5916.0	5881.3	5999.9	6391.7	6478.5	5693.3
56°	3759.9	3832.2	4565.3	5339.0	5856.7	6047.6	6030.2	6083.7	6560.9	6652.0	5725.1
57.5°	3265.3	3271.1	3892.9	4980.4	5720.8	6086.6	6069.3	6111.2	6527.7	6465.5	5446.0
60°	2043.3	2133.0	2649.2	3830.7	4864.7	5647.0	5745.3	5408.4	5503.8	5372.3	4237.1
62.5°	1058.5	1045.5	1388.3	2240.0	3229.1	4043.3	4134.4	4118.5	3971.0	3778.7	2767.8
65°	527.8	530.7	725.9	1109.2	1654.3	2117.1	2371.6	2399.1	2007.2	1846.7	1313.1
67.5°	383.2	397.7	522.0	678.2	779.4	872.0	1068.7	1048.4	793.9	754.9	699.9
70°	297.9	310.9	423.7	517.7	470.0	470.0	511.9	529.3	565.4	581.3	600.1
72.5°	216.9	227.0	323.9	357.2	308.0	331.2	383.2	423.7	461.3	467.1	488.8
75°	148.9	157.6	212.6	196.7	185.1	228.5	280.5	318.1	345.6	360.1	373.1
77.5°	96.9	99.8	121.5	102.7	118.6	147.5	182.2	214.0	241.5	253.1	256.0
80°	43.4	47.7	52.1	65.1	82.4	105.6	130.1	156.2	173.5	177.9	186.5
82.5°	24.6	24.6	31.8	46.3	60.7	76.6	94.0	112.8	133.0	137.4	135.9
85°	13.0	13.0	18.8	27.5	37.6	44.8	43.4	44.8	47.7	55.0	53.5
87.5°	4.3	4.3	5.8	5.8	7.2	8.7	7.2	10.1	13.0	13.0	13.0
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°	2970.3	2970.3	2970.3	2970.3	2970.3	2970.3	2970.3	2970.3	2970.3	2970.3	2970.3
2.5°	2965.9	2979.0	2961.6	2999.2	2999.2	2992.0	2955.8	2967.4	2976.1	2976.1	2983.3
5°	3022.3	3018.0	3029.6	2984.7	2957.3	2947.1	2887.9	2858.9	2834.4	2832.9	2811.2
7.5°	3054.2	3042.6	3038.2	3005.0	2883.5	2809.8	2682.5	2608.8	2592.9	2536.5	2558.1
10°	3104.8	3126.5	3104.8	2924.0	2754.8	2585.6	2461.3	2347.0	2302.2	2266.0	2244.3
12.5°	3208.9	3198.8	3073.0	2828.6	2591.4	2390.4	2205.3	2085.3	2040.4	2008.6	2005.7
15°	3297.1	3246.5	3054.2	2678.2	2336.9	2122.9	1971.0	1885.7	1865.5	1868.4	1881.4
17.5°	3327.5	3292.8	2955.8	2522.0	2147.5	1895.8	1825.0	1812.0	1830.8	1852.5	1858.2
20°	3375.2	3320.2	2915.3	2309.4	1913.2	1754.1	1749.8	1796.1	1830.8	1862.6	1866.9
22.5°	3475.0	3336.1	2783.7	2108.4	1752.7	1712.2	1754.1	1793.2	1846.7	1872.7	1849.6
25°	3503.9	3301.4	2598.6	1866.9	1651.4	1686.1	1731.0	1784.5	1822.1	1836.5	1846.7
27.5°	3528.5	3247.9	2348.5	1706.4	1619.6	1684.7	1731.0	1775.8	1796.1	1809.1	1820.6
30°	3597.9	3232.0	2131.5	1599.4	1599.4	1655.8	1715.1	1726.6	1754.1	1770.0	1790.3
32.5°	3632.6	3122.1	1908.8	1531.4	1579.1	1670.2	1674.6	1696.3	1697.7	1710.7	1689.0
35°	3723.7	3044.0	1702.1	1482.2	1587.8	1655.8	1677.5	1664.5	1593.6	1558.9	1566.1
37.5°	3790.2	3005.0	1553.1	1476.5	1589.3	1671.7	1683.3	1584.9	1511.2	1453.3	1467.8
40°	3969.5	2908.1	1440.3	1466.3	1602.3	1689.0	1657.2	1550.2	1417.2	1357.9	1347.8
42.5°	4106.9	2838.7	1369.5	1454.8	1612.4	1713.6	1644.2	1480.8	1344.9	1289.9	1304.4
45°	4266.0	2822.8	1331.9	1457.7	1629.8	1726.6	1628.3	1427.3	1282.7	1261.0	1256.7
47.5°	4322.4	2708.5	1291.4	1433.1	1625.4	1722.3	1574.8	1386.8	1259.6	1262.4	1274.0
50°	4228.4	2591.4	1261.0	1382.5	1596.5	1683.3	1490.9	1333.3	1246.5	1282.7	1302.9
52.5°	4108.4	2471.4	1198.8	1314.5	1537.2	1622.5	1451.9	1330.4	1233.5	1222.0	1226.3
55°	4144.5	2373.0	1112.0	1222.0	1441.8	1509.7	1408.5	1302.9	1201.7	1158.3	1172.8
56°	4027.4	2271.8	1055.7	1164.1	1376.7	1437.4	1386.8	1278.3	1175.7	1146.8	1146.8
57.5°	3696.2	1932.0	981.9	1071.6	1239.3	1311.6	1344.9	1263.9	1146.8	1096.1	1097.6
60°	2725.9	1373.8	880.7	944.3	1026.7	1084.6	1239.3	1223.4	1074.5	1039.7	1026.7
62.5°	1680.4	1003.6	808.4	833.0	874.9	922.6	1081.7	1107.7	997.8	960.2	951.5
65°	941.4	767.9	753.4	763.5	783.8	808.4	898.0	955.9	880.7	822.8	819.9
67.5°	688.3	686.9	698.5	707.1	715.8	715.8	737.5	760.6	750.5	704.2	699.9
70°	611.7	616.0	624.7	626.2	629.1	618.9	601.6	594.3	605.9	577.0	571.2
72.5°	504.7	519.1	529.3	530.7	514.8	501.8	478.7	454.1	445.4	439.6	438.2
75°	387.6	397.7	402.0	400.6	394.8	376.0	348.5	323.9	308.0	290.7	299.3
77.5°	261.7	276.2	283.4	283.4	274.8	245.8	232.8	214.0	198.1	179.3	182.2
80°	183.7	193.8	205.3	203.9	189.4	175.0	156.2	138.8	125.8	111.3	109.9
82.5°	137.4	143.2	148.9	146.1	135.9	121.5	108.5	92.6	78.1	68.0	68.0
85°	49.2	53.5	65.1	68.0	73.8	73.8	62.2	52.1	41.9	34.7	34.7
87.5°	14.5	14.5	15.9	15.9	14.5	15.9	13.0	14.5	15.9	10.1	10.1
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)