

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: P528942

Luminaire Tested: **GALN-SA4A-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528942
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-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 15174 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

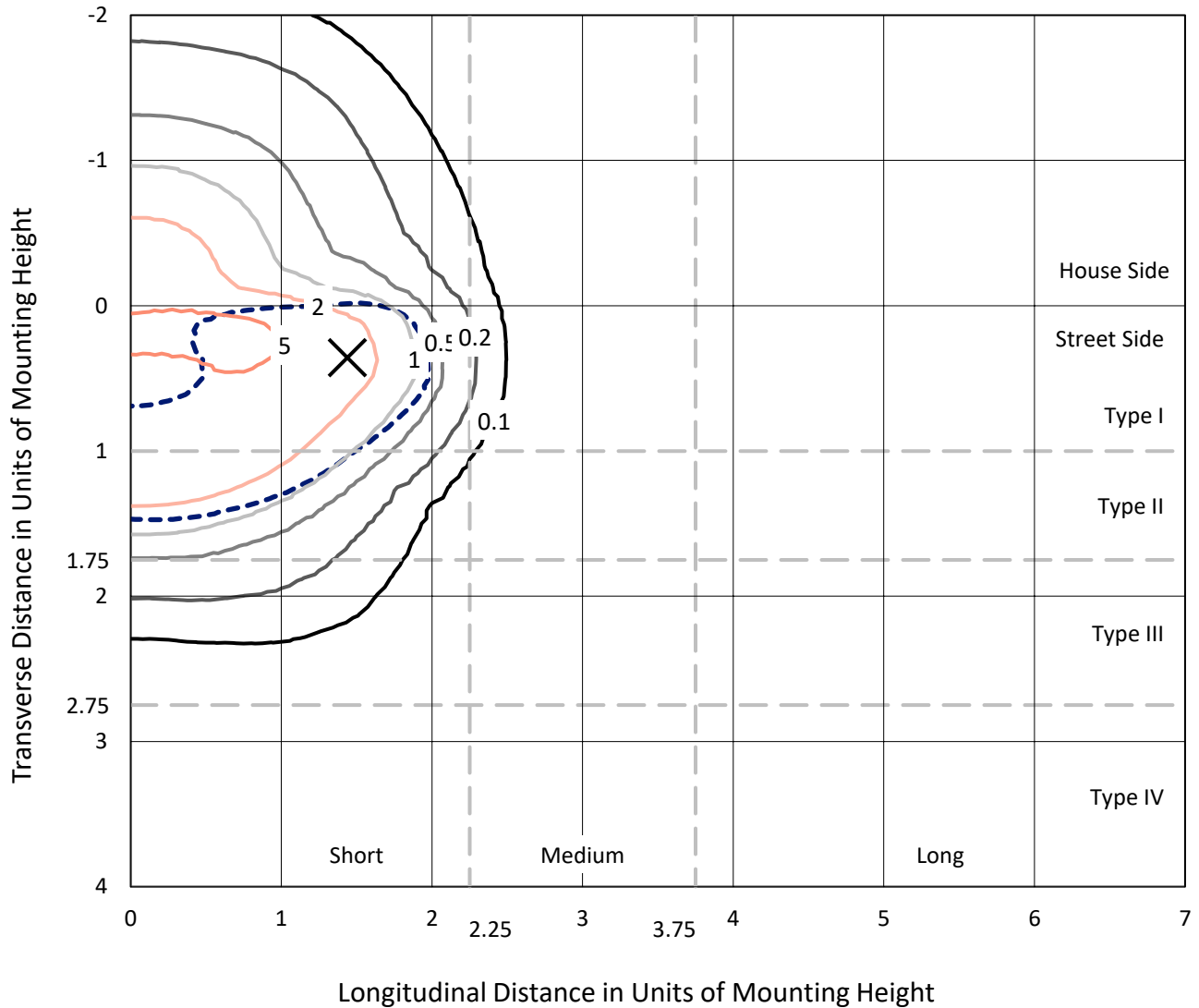
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

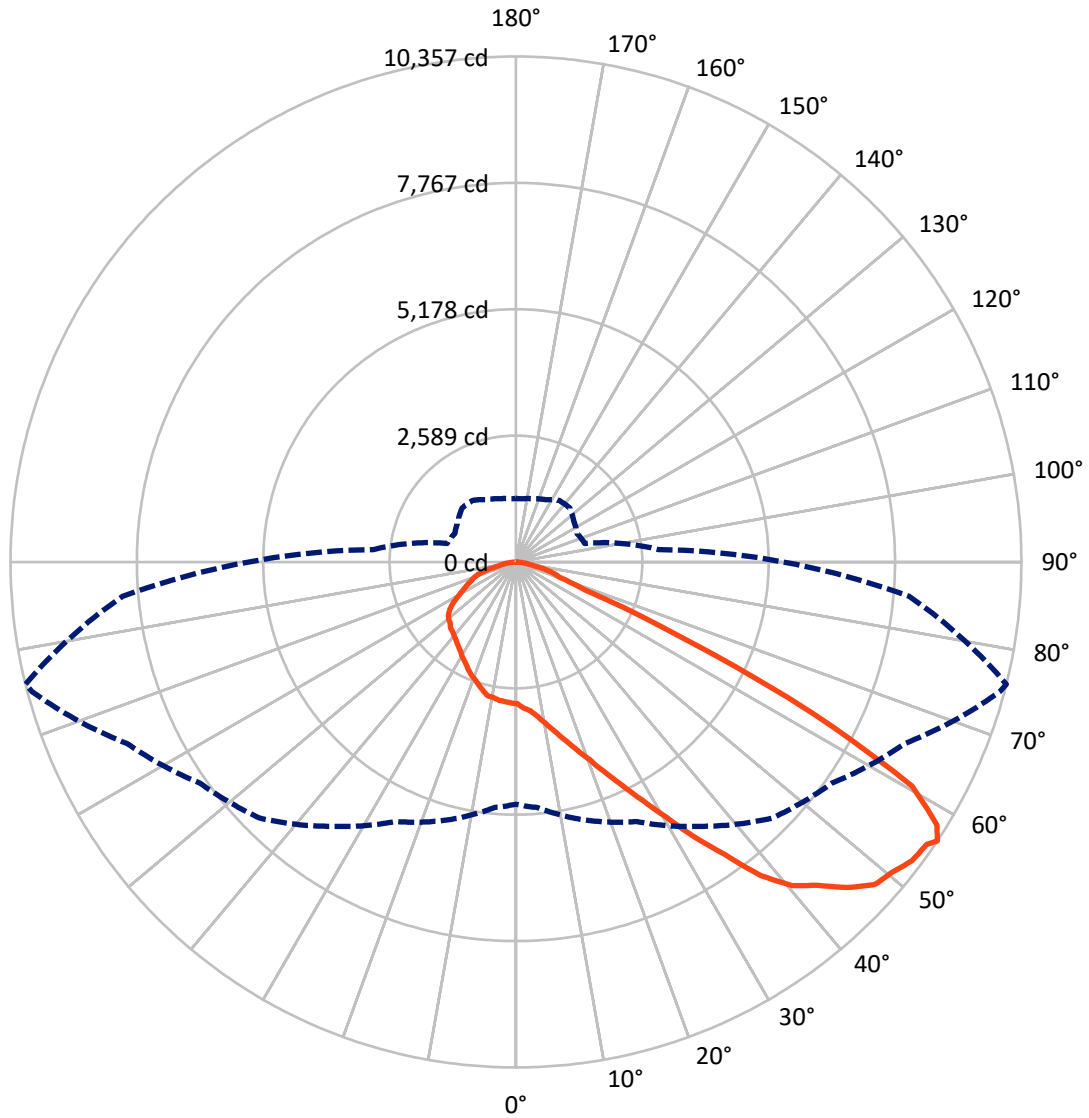
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	4079.8	0.0	4079.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	11094.2	0.0	11094.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	15174.0	0.0	15174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.9	1.9
10°-20°	904.5	6.0
20°-30°	1581.8	10.4
30°-40°	2476.6	16.3
40°-50°	3602.8	23.7
50°-60°	3959.7	26.1
60°-70°	1767.4	11.6
70°-80°	510.5	3.4
80°-90°	82.8	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°	15174.0	100.0
0°-180°	15174.0	100.0

Coefficient of Utilization



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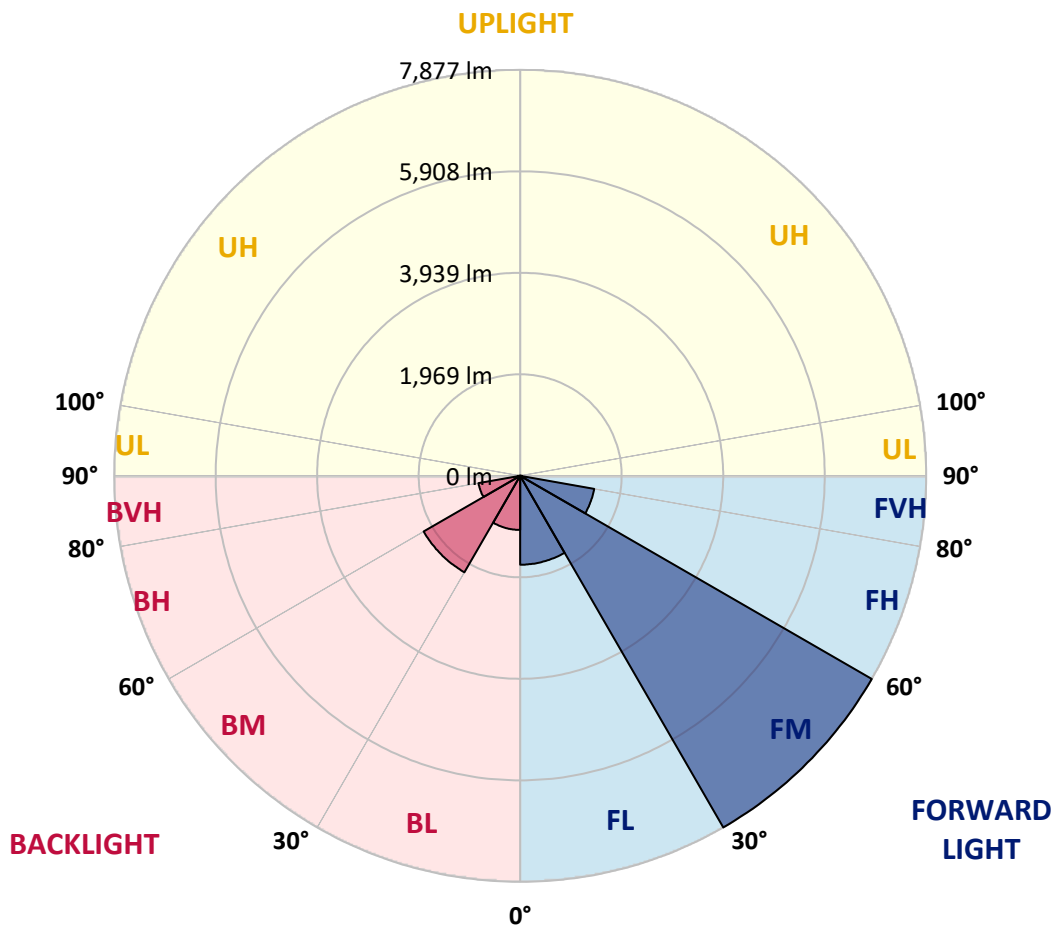
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1724.4	11.4			
FM (30°-60°)	7877.1	51.9			
FH (60°-80°)	1457.1	9.6			G1/1800
FVH (80°-90°)	35.6	0.2			G1/100
BL (0°-30°)	1049.8	6.9	B3/2500		
BM (30°-60°)	2162.0	14.2	B2/2500		
BH (60°-80°)	820.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	47.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2903.4	2903.4	2903.4	2903.4	2903.4	2903.4	2903.4	2903.4	2903.4	2903.4	2903.4
2.5°	3198.4	3147.3	3143.3	3129.6	3137.4	3102.0	3064.6	3015.5	2964.3	2995.8	2921.1
5°	3422.6	3353.8	3381.3	3334.1	3340.0	3292.8	3216.1	3159.1	3096.1	3058.7	3005.6
7.5°	3501.3	3507.2	3526.9	3519.0	3479.7	3479.7	3428.5	3328.2	3218.1	3196.4	3107.9
10°	3607.6	3609.5	3587.9	3593.8	3648.9	3623.3	3578.0	3534.8	3393.1	3367.6	3210.2
12.5°	3644.9	3609.5	3644.9	3676.4	3741.3	3776.7	3766.9	3735.4	3583.9	3566.2	3336.1
15°	3650.8	3629.2	3658.7	3729.5	3786.6	3936.0	4010.8	3989.2	3788.5	3790.5	3477.7
17.5°	3623.3	3652.8	3664.6	3725.6	3857.4	3997.0	4213.4	4242.9	4077.7	4052.1	3656.7
20°	3660.7	3639.0	3654.8	3709.8	3884.9	4103.2	4386.5	4581.2	4349.1	4331.4	3841.6
22.5°	3804.3	3774.7	3770.8	3806.2	3932.1	4158.3	4569.4	4919.6	4679.6	4689.4	4071.8
25°	3916.4	3932.1	3918.3	3916.4	3995.1	4240.9	4811.4	5322.8	5128.1	5071.0	4343.2
27.5°	4109.1	4146.5	4119.0	4156.4	4138.7	4364.9	4984.5	5769.3	5612.0	5535.2	4589.1
30°	4376.7	4396.3	4370.8	4370.8	4317.7	4538.0	5141.8	6235.5	6170.6	6066.3	4878.3
32.5°	4728.8	4758.3	4707.1	4677.6	4669.8	4795.6	5425.1	6695.8	6806.0	6717.4	5261.8
35°	5195.0	5177.2	5116.3	5088.7	4982.5	5191.0	5846.0	7224.9	7514.1	7356.7	5726.1
37.5°	5606.1	5578.5	5574.6	5421.2	5446.7	5617.9	6204.0	7626.2	8200.6	8155.3	6215.8
40°	5989.6	6015.2	6056.5	5970.0	5930.6	6119.5	6621.1	7933.1	8733.7	8716.0	6593.5
42.5°	6400.7	6377.1	6449.9	6377.1	6318.1	6585.6	7073.5	8145.5	9201.8	9056.2	6988.9
45°	6996.8	6922.0	6947.6	6953.5	6910.2	7008.6	7260.3	8298.9	9530.3	9514.6	7278.0
47.5°	7494.4	7496.4	7453.1	7419.7	7287.9	7386.2	7468.8	8395.3	9908.0	9882.4	7390.2
50°	7679.3	7653.8	7779.6	7852.4	7860.3	7659.7	7632.1	8448.4	10106.6	9994.5	7502.3
52.5°	7014.5	7038.1	7236.7	7669.5	7919.3	7940.9	7822.9	8558.6	10187.3	10163.7	7592.8
55°	5645.4	5759.5	6086.0	6585.6	7177.7	7828.8	8029.5	8672.7	10230.6	10210.9	7994.0
56°	4962.8	5051.4	5476.2	5867.7	6611.2	7421.6	7899.6	8794.6	10264.0	10356.5	8088.5
57.5°	3995.1	4097.3	4402.2	4846.8	5724.1	6646.6	7541.6	8645.1	10134.2	10169.6	8157.3
60°	2498.1	2508.0	2873.8	3166.9	3784.6	4685.5	5755.6	7522.0	9378.8	9327.7	7327.2
62.5°	1638.5	1640.5	1972.9	2212.9	2494.2	2700.7	3387.2	4988.4	6920.0	6829.6	5216.6
65°	1150.7	1176.3	1434.0	1754.6	1868.7	1760.5	1738.9	2629.9	3865.2	3735.4	2803.0
67.5°	841.9	843.9	1072.0	1416.3	1581.5	1339.6	1087.8	1284.5	1530.4	1526.4	1298.2
70°	556.7	580.3	755.3	1058.3	1247.1	1076.0	889.1	918.6	973.7	973.7	965.8
72.5°	324.6	346.2	462.3	670.8	700.3	672.7	704.2	786.8	822.2	820.3	810.4
75°	184.9	194.7	220.3	279.3	348.2	411.1	517.3	596.0	631.4	653.1	627.5
77.5°	108.2	114.1	129.8	159.3	181.0	222.3	281.3	336.4	383.6	377.7	381.6
80°	57.0	57.0	72.8	94.4	125.9	157.4	186.9	218.3	243.9	249.8	255.7
82.5°	33.4	35.4	47.2	68.8	90.5	112.1	143.6	165.2	188.8	190.8	194.7
85°	17.7	19.7	29.5	45.2	61.0	68.8	70.8	66.9	72.8	68.8	78.7
87.5°	5.9	5.9	9.8	7.9	7.9	9.8	11.8	11.8	15.7	15.7	15.7
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°	2903.4	2903.4	2903.4	2903.4	2903.4	2903.4	2903.4	2903.4	2903.4	2903.4	2903.4
2.5°	2919.1	2919.1	2885.6	2822.7	2812.9	2787.3	2763.7	2761.7	2744.0	2728.3	2720.4
5°	2974.2	2913.2	2864.0	2807.0	2740.1	2708.6	2673.2	2633.9	2618.1	2633.9	2631.9
7.5°	3037.1	2986.0	2838.4	2732.2	2655.5	2624.0	2584.7	2543.4	2547.3	2547.3	2519.8
10°	3098.1	3029.2	2793.2	2657.5	2545.3	2521.7	2500.1	2515.8	2535.5	2539.4	2521.7
12.5°	3200.4	3045.0	2771.6	2582.7	2511.9	2460.8	2474.5	2517.8	2559.1	2547.3	2561.1
15°	3277.1	3058.7	2673.2	2506.0	2417.5	2441.1	2490.3	2519.8	2588.6	2580.8	2594.5
17.5°	3351.8	3066.6	2576.8	2403.7	2366.3	2431.3	2468.6	2553.2	2574.9	2622.1	2639.8
20°	3505.3	3082.4	2478.5	2340.8	2329.0	2403.7	2468.6	2508.0	2555.2	2596.5	2596.5
22.5°	3583.9	3074.5	2413.6	2258.2	2295.5	2342.7	2401.8	2468.6	2468.6	2508.0	2509.9
25°	3682.3	3043.0	2311.3	2218.8	2246.4	2291.6	2358.5	2334.9	2360.4	2360.4	2391.9
27.5°	3794.4	2976.1	2222.8	2148.0	2203.1	2252.3	2262.1	2246.4	2216.9	2212.9	2201.1
30°	3884.9	2893.5	2157.8	2124.4	2169.6	2197.2	2165.7	2132.3	2081.1	2077.2	2049.7
32.5°	4008.8	2791.2	2077.2	2065.4	2116.5	2118.5	2108.7	2057.5	1982.8	1951.3	1919.8
35°	4217.3	2732.2	2016.2	2033.9	2049.7	2043.8	2026.1	1971.0	1896.2	1882.5	1870.7
37.5°	4370.8	2688.9	1953.3	1974.9	1988.7	1996.5	1943.4	1882.5	1884.4	1856.9	1849.0
40°	4543.9	2661.4	1902.1	1912.0	1913.9	1939.5	1874.6	1845.1	1858.9	1841.1	1853.0
42.5°	4766.1	2669.3	1849.0	1841.1	1878.5	1868.7	1837.2	1797.9	1805.7	1752.6	1760.5
45°	4884.2	2722.4	1817.5	1782.1	1823.4	1821.5	1780.2	1742.8	1695.6	1593.3	1597.2
47.5°	4962.8	2736.2	1742.8	1719.2	1762.5	1788.0	1740.8	1654.3	1587.4	1514.6	1496.9
50°	5043.5	2761.7	1707.4	1658.2	1675.9	1736.9	1677.9	1595.3	1530.4	1465.4	1475.3
52.5°	5114.3	2810.9	1638.5	1565.8	1597.2	1664.1	1632.6	1532.3	1461.5	1408.4	1392.7
55°	5429.0	2921.1	1522.5	1428.1	1502.8	1587.4	1569.7	1447.7	1371.0	1343.5	1339.6
56°	5478.2	2925.0	1461.5	1380.9	1449.7	1561.8	1540.2	1410.4	1341.5	1298.2	1300.2
57.5°	5486.1	2877.8	1375.0	1337.6	1396.6	1524.5	1496.9	1380.9	1286.4	1247.1	1235.3
60°	4827.1	2246.4	1266.8	1243.2	1312.0	1410.4	1400.5	1300.2	1194.0	1148.8	1170.4
62.5°	3290.9	1646.4	1182.2	1178.3	1213.7	1310.0	1284.5	1194.0	1105.5	1076.0	1062.2
65°	1915.9	1249.1	1099.6	1083.8	1113.3	1164.5	1182.2	1087.8	995.3	975.7	969.8
67.5°	1131.0	1032.7	993.4	967.8	957.9	989.4	1003.2	948.1	855.7	828.1	851.7
70°	946.1	918.6	920.6	877.3	853.7	832.1	820.3	771.1	694.4	659.0	649.1
72.5°	816.3	804.5	796.7	757.3	735.7	686.5	635.4	586.2	529.1	499.6	501.6
75°	623.6	619.6	623.6	603.9	566.5	527.2	480.0	417.0	373.7	336.4	344.2
77.5°	371.8	383.6	389.5	381.6	365.9	330.5	301.0	259.6	218.3	188.8	184.9
80°	255.7	265.6	275.4	265.6	249.8	224.2	192.8	161.3	131.8	116.1	112.1
82.5°	194.7	204.6	210.5	200.6	181.0	153.4	131.8	110.2	86.5	70.8	66.9
85°	70.8	80.6	78.7	94.4	102.3	98.4	84.6	64.9	49.2	35.4	33.4
87.5°	19.7	17.7	19.7	19.7	19.7	17.7	15.7	15.7	15.7	9.8	7.9
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)