

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: P383097

Luminaire Tested: **GLEON-SA4B-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21955.7 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

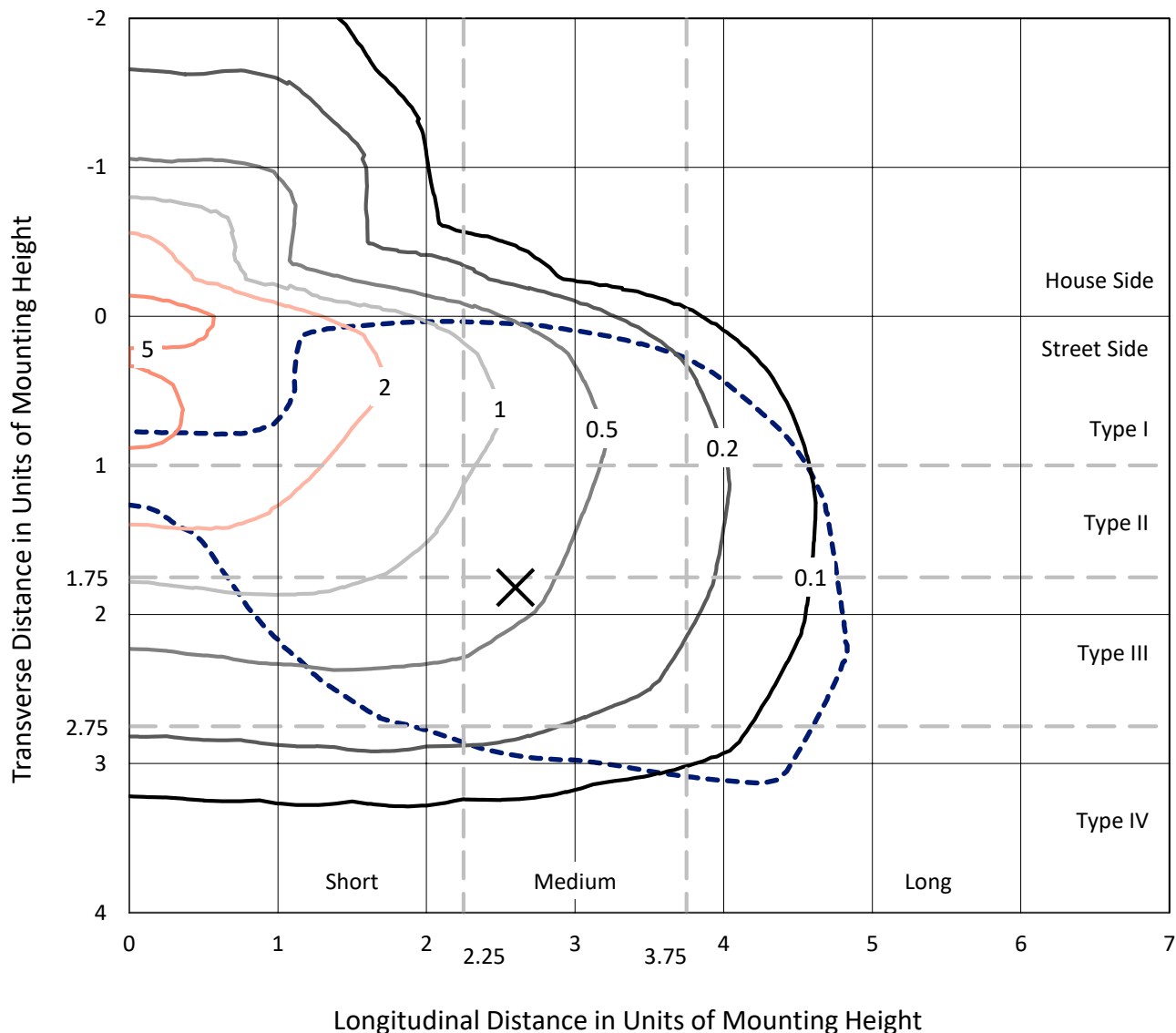
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

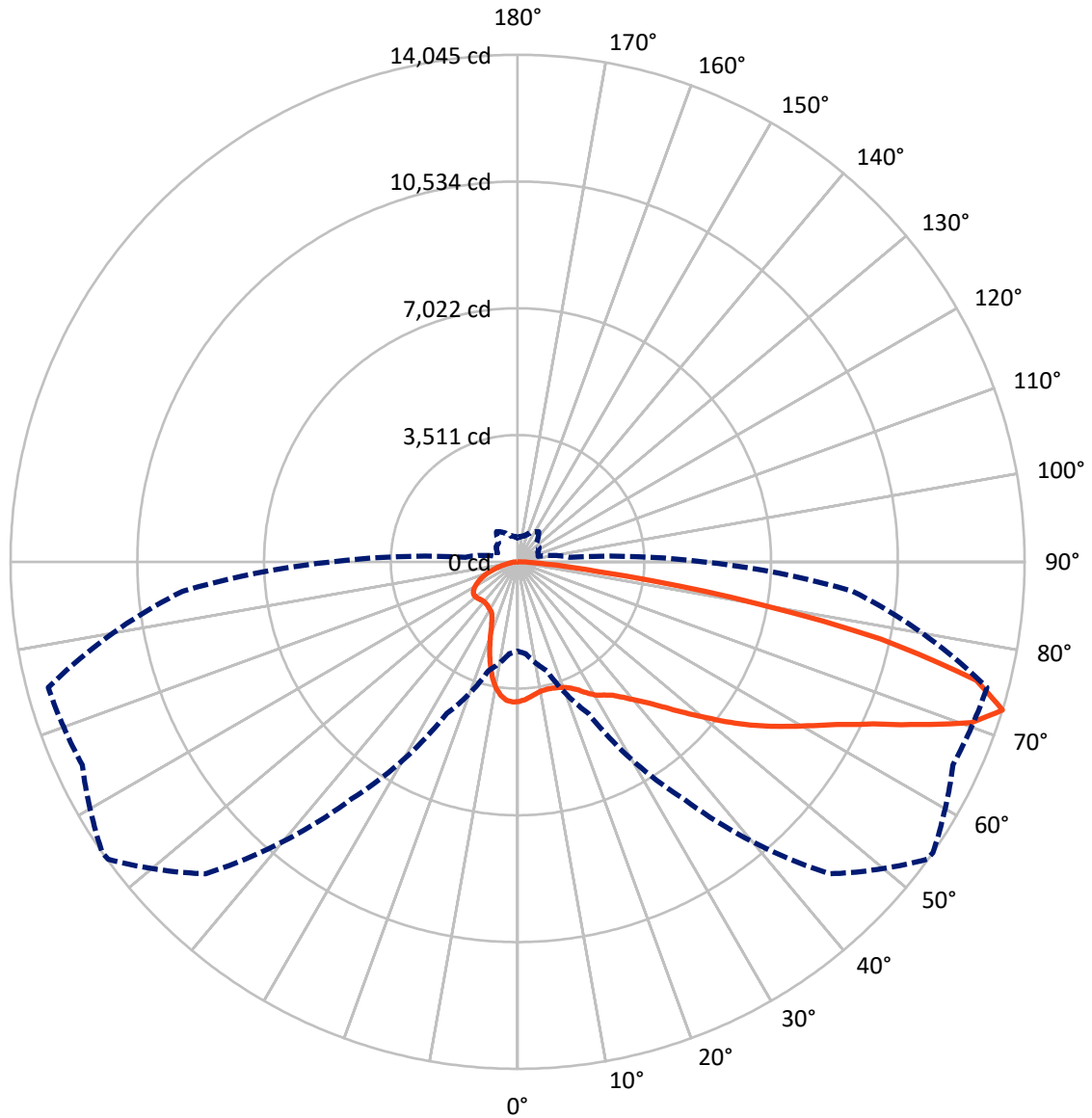
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4080.9	0.0	4080.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17874.8	0.0	17874.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	21955.7	0.0	21955.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.4	1.6
10°-20°	932.9	4.2
20°-30°	1538.2	7.0
30°-40°	2275.4	10.4
40°-50°	3175.9	14.5
50°-60°	4135.1	18.8
60°-70°	5082.0	23.1
70°-80°	3983.7	18.1
80°-90°	482.1	2.2
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°	21955.7	100.0
0°-180°	21955.7	100.0

Coefficient of Utilization

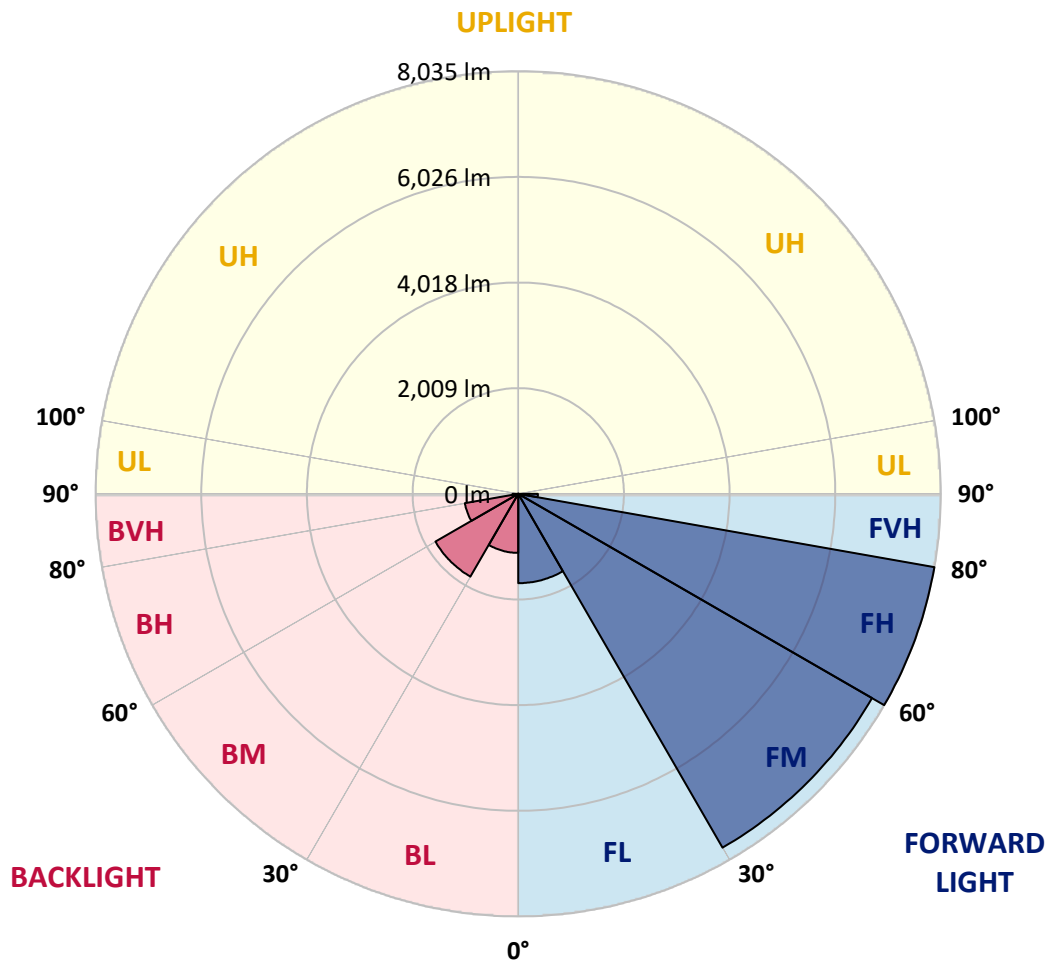


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1698.7	7.7			
FM (30°-60°)	7768.3	35.4			
FH (60°-80°)	8035.0	36.6			G4/12000
FVH (80°-90°)	372.7	1.7			G3/500
BL (0°-30°)	1122.8	5.1	B3/2500		
BM (30°-60°)	1818.1	8.3	B2/2500		
BH (60°-80°)	1030.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	109.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3872.5	3872.5	3872.5	3872.5	3872.5	3872.5	3872.5	3872.5	3872.5	3872.5	3872.5
2.5°	3746.4	3737.6	3748.6	3764.2	3781.2	3804.3	3817.7	3823.5	3846.5	3855.5	3874.8
5°	3573.0	3568.5	3587.0	3613.7	3651.5	3705.0	3747.9	3756.1	3816.9	3859.9	3899.2
7.5°	3446.8	3446.8	3468.3	3500.2	3542.5	3614.4	3675.2	3686.4	3789.4	3882.1	3954.8
10°	3346.8	3350.4	3375.6	3413.5	3463.1	3539.5	3620.4	3632.9	3782.0	3934.0	4049.7
12.5°	3280.0	3288.9	3311.8	3346.0	3407.5	3500.2	3602.6	3619.6	3797.6	4008.2	4163.9
15°	3322.3	3337.1	3339.3	3353.4	3387.5	3488.4	3612.9	3630.7	3831.0	4083.8	4293.7
17.5°	3507.6	3512.9	3489.9	3460.2	3443.8	3508.4	3644.1	3662.7	3871.0	4158.7	4418.3
20°	3789.4	3786.5	3736.8	3656.7	3573.6	3584.0	3695.3	3714.5	3925.2	4224.8	4542.9
22.5°	4145.4	4135.0	4058.7	3911.1	3769.4	3710.1	3785.0	3801.3	4006.8	4318.9	4676.4
25°	4577.0	4554.1	4453.2	4255.1	4046.7	3894.1	3920.0	3935.5	4125.4	4424.2	4798.8
27.5°	5032.3	5009.3	4881.0	4641.5	4364.2	4126.1	4106.1	4119.5	4260.3	4502.1	4889.2
30°	5508.4	5483.9	5366.7	5098.4	4700.9	4366.3	4279.6	4284.8	4355.3	4544.4	4963.4
32.5°	5986.8	5963.8	5832.5	5521.0	5066.4	4624.5	4404.9	4398.3	4412.4	4588.2	5047.1
35°	6471.7	6480.6	6327.1	5982.3	5471.4	4911.5	4553.3	4539.2	4508.0	4677.9	5165.8
37.5°	6990.8	6984.9	6786.1	6425.7	5894.7	5222.9	4766.1	4763.8	4656.3	4847.7	5351.9
40°	7337.9	7341.6	7220.7	6879.6	6322.7	5567.8	5039.0	5033.8	4893.0	5102.0	5595.9
42.5°	7473.6	7498.0	7529.2	7312.6	6770.6	5967.5	5364.6	5357.1	5222.9	5466.9	5882.9
45°	7483.2	7532.2	7725.0	7697.6	7224.4	6425.0	5780.5	5759.9	5663.4	5951.8	6225.5
47.5°	7400.2	7450.6	7771.0	7926.7	7630.0	6907.8	6267.1	6250.8	6167.7	6558.5	6596.3
50°	7218.5	7266.7	7676.0	8038.7	7963.8	7372.0	6827.7	6784.6	6740.2	7259.3	7020.5
52.5°	6878.1	6970.8	7549.3	8065.3	8163.2	7784.3	7417.3	7389.0	7413.5	7998.6	7445.4
55°	6072.0	6175.9	7222.2	8043.1	8310.8	8130.6	8006.7	8005.3	8132.1	8774.3	7901.5
57.5°	5620.4	5693.8	6556.2	8005.3	8485.8	8474.8	8590.4	8604.5	8851.5	9619.0	8379.1
60°	5365.2	5442.4	6218.8	7865.1	8757.3	8919.7	9185.9	9214.0	9582.6	10554.1	8953.8
62.5°	5133.2	5217.7	6009.7	7579.6	9076.9	9555.9	9899.3	9924.5	10356.9	11515.1	9509.2
65°	4736.5	4832.1	5703.5	7392.0	9367.5	10385.7	10806.2	10823.3	11246.0	12522.2	9934.1
67.5°	4175.8	4263.3	5125.7	6977.5	9582.6	11393.6	12012.0	12021.7	12127.7	13233.4	10151.4
70°	3521.0	3554.4	4302.6	6121.7	9328.2	12336.1	13333.5	13335.8	12931.6	13688.7	10115.9
72.5°	2473.9	2552.5	3123.5	4634.1	8016.4	12221.2	14019.5	14044.7	13305.3	13458.8	9307.5
75°	1517.3	1600.3	1959.2	2808.3	5085.7	9611.5	12953.1	13128.1	12604.6	12000.2	7603.4
77.5°	1014.5	1045.7	1278.5	1637.4	2304.1	5529.9	9958.6	10287.8	10471.1	8751.3	4862.5
80°	565.8	625.2	847.6	1017.4	1024.9	2197.2	5971.1	6048.3	5825.8	3484.6	1500.2
82.5°	299.6	332.2	565.8	597.7	559.1	735.6	2225.5	2227.7	1861.3	934.3	445.7
85°	232.1	259.5	387.8	364.9	285.5	326.3	734.2	774.2	633.3	382.7	145.3
87.5°	115.7	143.8	263.3	231.4	112.0	93.4	262.5	280.3	249.9	149.8	52.6
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°	3872.5	3872.5	3872.5	3872.5	3872.5	3872.5	3872.5	3872.5	3872.5	3872.5	3872.5
2.5°	3882.1	3888.8	3896.9	3888.1	3885.1	3873.3	3853.3	3848.8	3838.3	3839.1	3845.1
5°	3916.2	3927.4	3922.9	3888.8	3848.0	3790.9	3731.6	3681.2	3647.8	3645.6	3643.4
7.5°	3981.5	3988.9	3954.0	3856.9	3742.8	3610.8	3486.1	3377.1	3311.1	3294.8	3291.1
10°	4083.8	4082.4	3986.7	3790.9	3563.3	3327.5	3127.2	2975.9	2887.7	2861.7	2855.1
12.5°	4198.0	4181.0	3997.8	3670.8	3309.6	2982.6	2729.0	2560.6	2468.7	2439.1	2431.6
15°	4316.0	4273.7	3970.3	3491.3	2998.2	2611.1	2344.9	2189.1	2139.5	2123.1	2120.2
17.5°	4425.7	4344.2	3891.8	3248.1	2643.0	2241.0	2033.4	1971.1	1983.0	2004.5	2005.2
20°	4533.3	4391.6	3765.7	2941.1	2268.5	1936.2	1865.8	1911.8	1968.2	2011.9	2017.8
22.5°	4639.3	4424.9	3603.3	2586.6	1933.2	1764.9	1814.7	1898.4	1963.0	2010.4	2018.6
25°	4728.3	4433.1	3379.4	2208.4	1700.4	1700.4	1790.2	1869.5	1933.2	1980.0	1988.2
27.5°	4761.0	4378.3	3063.5	1858.3	1583.3	1670.7	1756.1	1822.0	1876.2	1925.9	1934.7
30°	4773.5	4276.6	2698.6	1577.3	1535.1	1638.9	1710.0	1766.4	1817.6	1864.3	1872.5
32.5°	4775.8	4154.3	2311.4	1417.9	1501.7	1605.5	1652.9	1702.7	1757.6	1776.1	1779.1
35°	4789.8	4009.7	1903.6	1336.3	1470.5	1574.4	1612.2	1647.8	1558.8	1565.5	1571.4
37.5°	4830.6	3866.6	1562.5	1290.4	1450.5	1558.0	1603.3	1474.3	1404.6	1388.2	1386.0
40°	4907.0	3713.8	1309.7	1253.3	1443.1	1566.2	1546.2	1376.4	1256.2	1166.5	1153.2
42.5°	5013.0	3549.2	1147.9	1228.8	1448.3	1605.5	1466.8	1282.2	1082.7	1024.9	1017.4
45°	5132.5	3376.4	1060.5	1211.8	1466.1	1635.9	1450.5	1156.9	1001.9	958.1	954.4
47.5°	5248.2	3165.0	1015.2	1204.3	1490.6	1611.5	1381.6	1118.3	963.3	940.3	942.5
50°	5380.9	2974.4	987.8	1196.2	1512.1	1595.8	1303.7	1098.3	948.5	976.6	1006.4
52.5°	5492.9	2777.2	963.3	1179.8	1520.2	1568.4	1283.7	1102.0	948.5	1002.6	1030.8
55°	5625.6	2628.2	935.1	1145.7	1504.6	1490.6	1269.6	1124.2	959.6	925.5	928.5
57.5°	5796.9	2579.2	904.0	1092.3	1452.7	1377.1	1262.9	1145.7	952.9	931.5	938.8
60°	6034.2	2631.1	891.4	1022.7	1371.9	1288.1	1263.6	1134.6	906.2	869.1	869.9
62.5°	6260.4	2688.9	890.7	978.9	1272.6	1208.8	1246.6	1098.3	882.5	860.9	869.1
65°	6334.5	2630.4	855.1	930.0	1160.5	1113.9	1215.5	1059.7	864.7	832.1	830.6
67.5°	6235.1	2448.7	783.1	850.6	1032.2	1003.4	1174.7	1013.7	836.5	809.8	805.3
70°	5940.0	2043.1	694.1	746.0	886.2	878.7	1110.1	960.3	798.7	775.7	756.4
72.5°	5145.8	1455.7	585.1	620.7	721.6	745.2	1021.2	890.7	745.2	695.6	666.0
75°	4226.2	1077.5	480.6	487.9	548.0	612.6	898.8	809.0	682.3	597.7	574.8
77.5°	2588.1	659.3	382.7	385.7	393.0	488.7	740.1	717.9	602.2	498.4	482.0
80°	838.0	359.7	276.6	290.7	268.5	358.2	572.5	611.1	516.9	416.8	399.0
82.5°	318.9	209.9	186.9	196.6	186.1	240.2	417.5	489.4	423.5	342.6	278.8
85°	154.3	118.7	110.5	123.8	115.0	123.1	267.0	360.4	321.1	223.2	207.6
87.5°	54.9	52.6	42.3	57.1	48.9	43.8	81.6	181.7	212.1	153.5	137.2
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)