

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: P192264

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T3-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39062 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
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: 25 FT

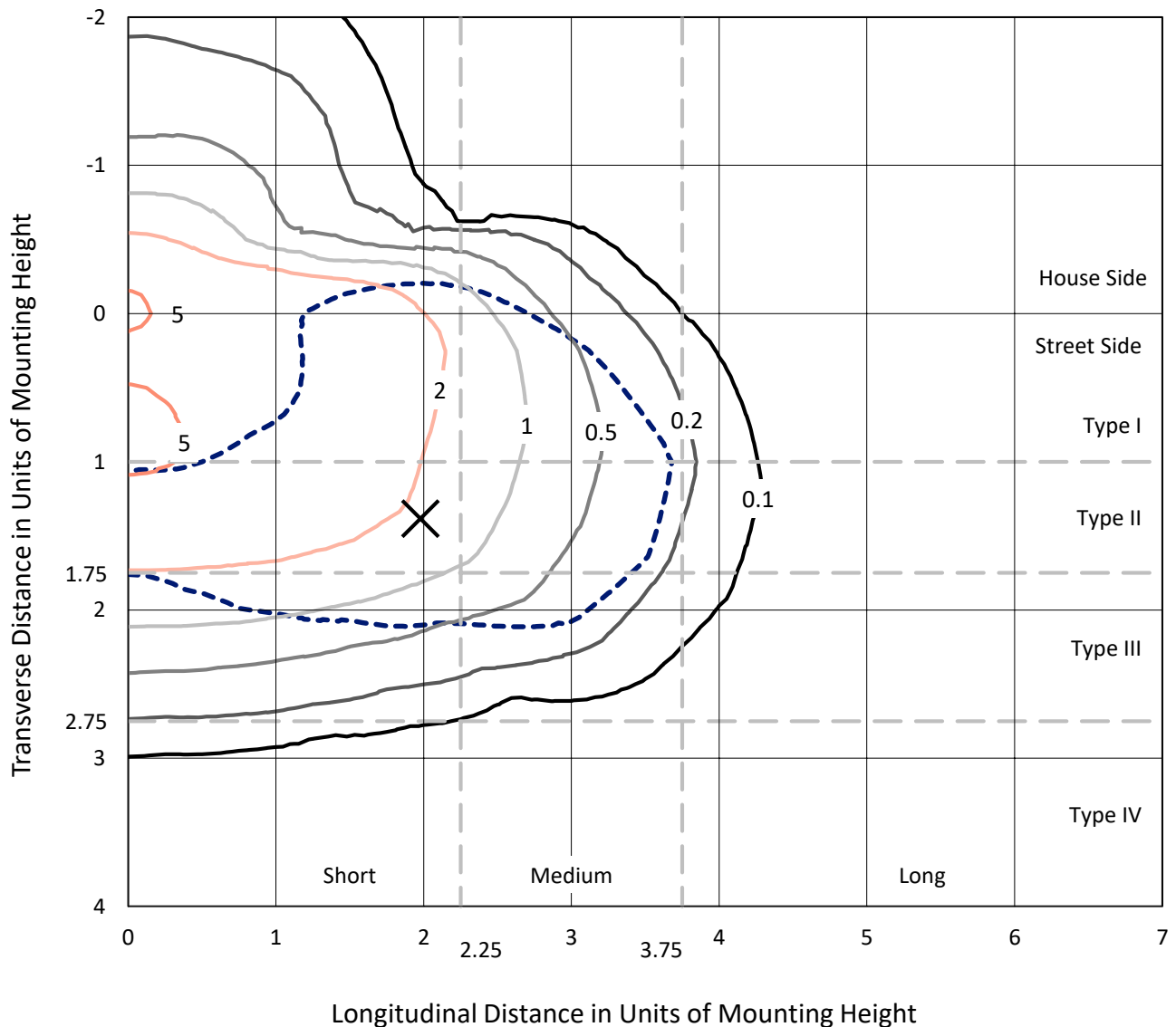


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Iso-Footcandle Lines of Horizontal Illumination

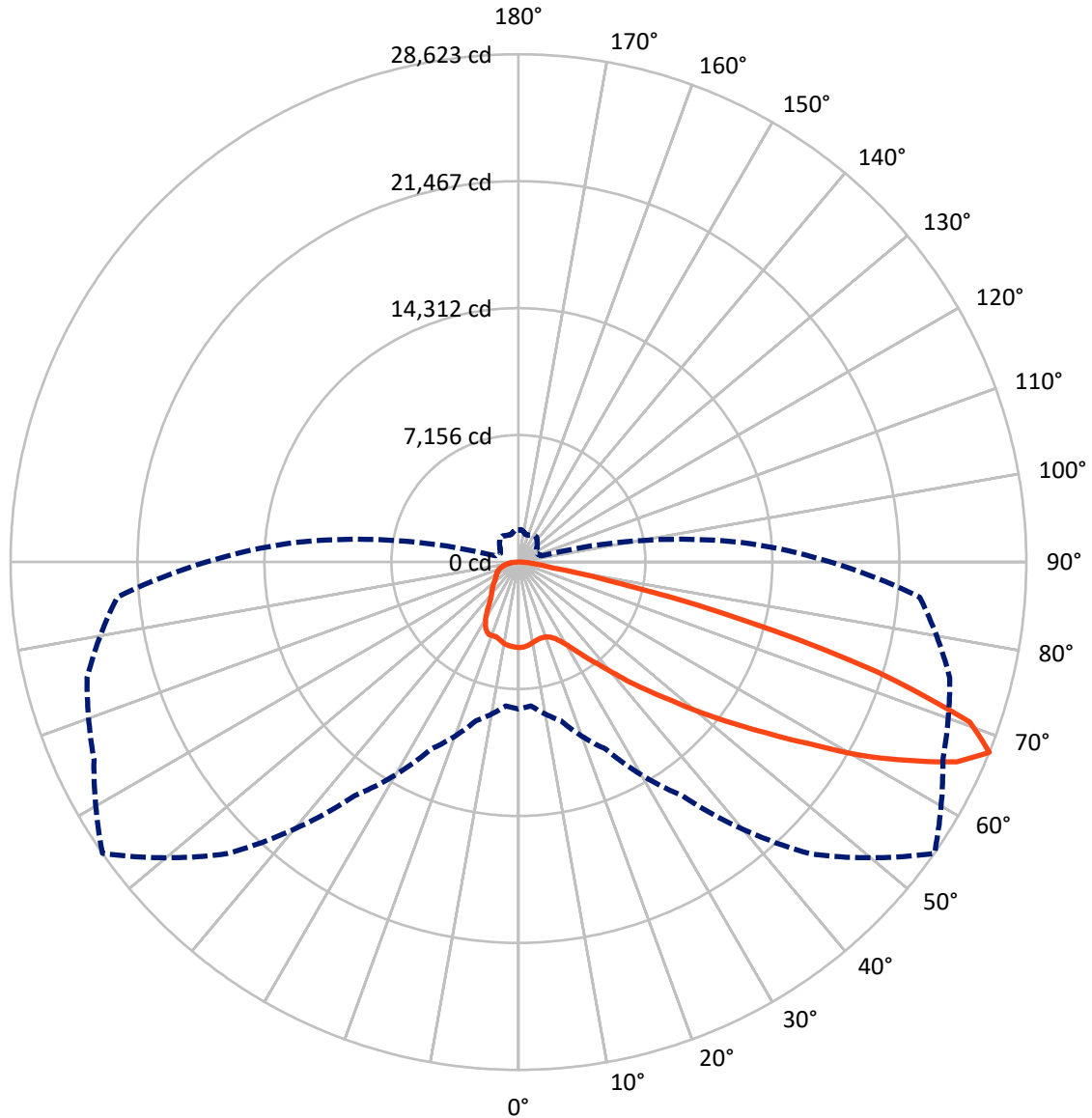
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8438.2	0.0	8438.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	30623.8	0.0	30623.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	39062.0	0.0	39062.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.6	1.2
10°-20°	1273.3	3.3
20°-30°	2133.0	5.5
30°-40°	3507.5	9.0
40°-50°	5904.2	15.1
50°-60°	9292.8	23.8
60°-70°	11090.0	28.4
70°-80°	4762.3	12.2
80°-90°	649.3	1.7
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°	39062.0	100.0
0°-180°	39062.0	100.0



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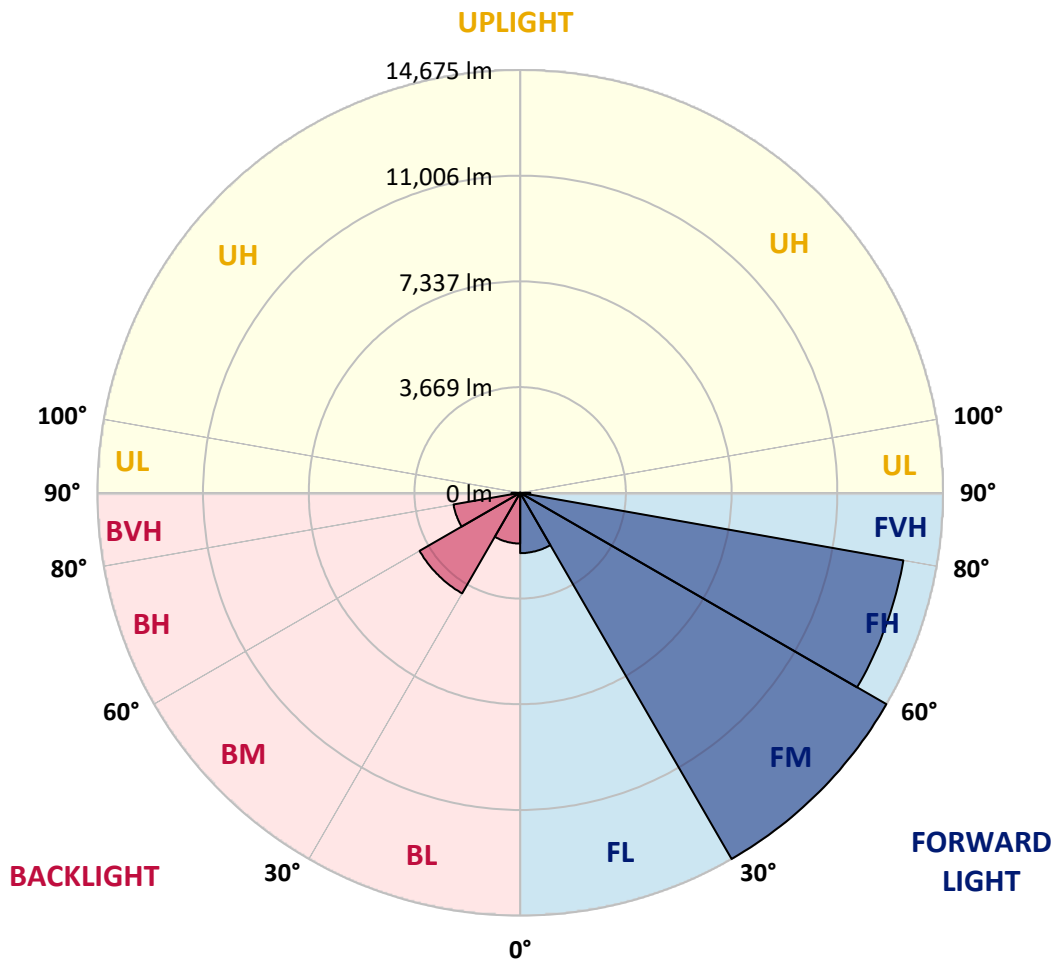
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2093.8	5.4			
FM	(30°-60°)	14674.6	37.6			
FH	(60°-80°)	13503.9	34.6			G5
FVH	(80°-90°)	351.5	0.9			G3/500
BL	(0°-30°)	1762.1	4.5	B3/2500		
BM	(30°-60°)	4030.0	10.3	B3/5000		
BH	(60°-80°)	2348.3	6.0	B3/2500		G3/2500
BVH	(80°-90°)	297.8	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8
2.5°	4775.3	4777.2	4780.9	4796.0	4809.2	4805.5	4807.3	4799.8	4797.9	4786.6	4797.9
5°	4714.9	4720.5	4722.4	4747.0	4762.1	4765.8	4760.2	4750.7	4739.4	4728.1	4733.8
7.5°	4577.2	4592.3	4594.1	4628.1	4652.6	4684.7	4686.6	4688.5	4682.8	4675.3	4686.6
10°	4490.4	4494.1	4492.3	4516.8	4535.7	4571.5	4592.3	4628.1	4643.2	4647.0	4654.5
12.5°	4484.7	4480.9	4475.3	4475.3	4469.6	4484.7	4522.4	4573.4	4609.2	4620.6	4630.0
15°	4545.1	4543.2	4524.3	4496.0	4460.2	4448.9	4480.9	4537.5	4584.7	4609.2	4618.7
17.5°	4680.9	4669.6	4639.4	4575.3	4497.9	4467.7	4471.5	4518.7	4573.4	4605.5	4614.9
20°	4930.0	4930.0	4865.8	4745.1	4607.3	4535.7	4501.7	4530.0	4582.8	4626.2	4639.4
22.5°	5360.1	5363.9	5256.4	5058.3	4826.2	4673.4	4588.5	4582.8	4645.1	4694.1	4709.2
25°	5969.6	5954.5	5803.5	5520.5	5167.7	4914.9	4767.7	4733.8	4786.6	4841.3	4860.2
27.5°	6679.0	6624.2	6445.0	6103.5	5646.9	5277.1	5050.7	4996.0	5046.9	5109.2	5128.1
30°	7380.8	7324.2	7111.0	6737.4	6229.9	5762.0	5437.5	5348.8	5420.5	5509.2	5520.5
32.5°	8082.7	8082.7	7844.9	7409.1	6856.3	6341.2	5952.6	5846.9	5965.8	6073.3	6097.8
35°	8922.3	8926.0	8695.8	8171.3	7577.0	7031.8	6603.5	6526.1	6705.4	6780.8	6839.3
37.5°	9954.3	9975.0	9678.8	9044.9	8394.0	7820.4	7311.0	7205.3	7384.6	7590.2	7778.9
40°	11069.3	11095.7	10769.3	9988.2	9337.3	8737.4	8186.4	7995.9	8294.0	8686.4	8929.8
42.5°	12133.4	12269.3	11954.2	11150.5	10450.5	9829.8	9271.3	8993.9	9367.5	9959.9	10171.3
45°	13671.1	13769.2	13220.2	12491.9	11833.4	11139.1	10399.5	10107.1	10629.7	11376.9	11420.3
47.5°	14695.6	14622.0	14342.8	13890.0	13473.0	12824.0	11710.8	11390.1	12084.4	12963.6	12720.2
50°	15240.8	15263.5	15225.8	15252.2	15267.3	14859.7	13318.3	12878.7	13706.9	14769.2	14208.8
52.5°	15750.3	15599.3	15723.8	16342.7	17089.8	16938.9	15067.3	14608.8	15446.5	16772.9	15782.3
55°	15738.9	15508.8	15914.4	17006.8	18627.5	18801.1	17031.3	16503.1	17286.0	18921.8	17450.2
57.5°	15182.4	15193.7	15818.2	17248.3	19699.1	20551.9	19310.5	18518.1	19236.9	21099.1	18972.8
60°	14416.4	14520.1	15420.1	17208.7	20557.6	21987.7	22106.6	20689.7	21148.1	23078.2	20233.1
62.5°	13180.6	13290.0	14531.4	16797.4	20427.4	23370.7	24634.8	23153.7	23146.2	24278.2	20602.9
65°	11231.6	11199.5	12503.2	15259.7	19335.0	24393.3	27146.0	25283.8	24651.8	24297.1	19859.5
67.5°	8282.7	8139.3	9258.1	11622.1	16071.0	23248.0	28623.3	26393.2	25164.9	22699.0	17587.9
70°	4297.9	4154.5	5060.2	6786.5	10569.4	18144.5	26987.5	25819.6	24031.0	19027.5	13778.6
72.5°	1837.7	1813.1	2181.0	2977.2	5113.0	10465.6	21161.3	22348.1	20619.9	14176.7	9473.2
75°	1235.8	1228.2	1366.0	1622.6	2299.9	4247.0	13242.8	15863.5	15086.1	8790.2	5328.1
77.5°	969.8	960.3	1041.5	1166.0	1490.5	1675.4	5877.1	8516.6	7882.7	3826.2	2332.0
80°	758.5	750.9	801.9	869.8	1071.7	1056.6	1933.9	3388.5	2622.5	1466.0	1133.9
82.5°	598.1	598.1	639.6	641.5	760.3	720.7	1009.4	1492.4	1309.4	854.7	694.3
85°	547.1	547.1	590.5	479.2	496.2	454.7	626.4	884.9	830.2	350.9	301.9
87.5°	275.5	267.9	496.2	424.5	269.8	241.5	305.6	428.3	460.4	194.3	150.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8
2.5°	4794.1	4792.2	4796.0	4797.9	4813.0	4833.8	4843.2	4856.4	4863.9	4860.2
5°	4737.5	4741.3	4756.4	4767.7	4794.1	4828.1	4847.0	4862.1	4875.3	4869.6
7.5°	4690.4	4699.8	4722.4	4731.9	4747.0	4756.4	4754.5	4760.2	4771.5	4758.3
10°	4663.9	4675.3	4692.2	4679.0	4643.2	4592.3	4545.1	4520.6	4528.1	4518.7
12.5°	4637.5	4652.6	4639.4	4577.2	4477.2	4411.1	4375.3	4379.1	4396.0	4399.8
15°	4622.4	4628.1	4571.5	4454.5	4352.6	4343.2	4362.1	4358.3	4360.2	4360.2
17.5°	4622.4	4607.3	4501.7	4384.7	4341.3	4324.3	4265.9	4192.3	4160.2	4148.9
20°	4647.0	4607.3	4479.1	4401.7	4307.4	4162.1	4007.4	3871.5	3811.2	3794.2
22.5°	4720.5	4652.6	4543.2	4409.2	4141.3	3897.9	3652.7	3490.4	3381.0	3362.1
25°	4869.6	4794.1	4669.6	4309.2	3877.2	3530.0	3250.8	3069.7	2960.2	2945.2
27.5°	5130.0	5080.9	4737.5	4088.5	3526.3	3154.6	2896.1	2756.5	2675.4	2669.7
30°	5522.4	5497.9	4703.6	3762.1	3094.2	2790.4	2665.9	2584.8	2524.4	2522.5
32.5°	6148.8	5950.7	4592.3	3364.0	2699.9	2532.0	2481.0	2432.0	2384.8	2384.8
35°	6954.4	6316.7	4380.9	2937.6	2460.3	2388.6	2324.4	2247.1	2184.8	2181.0
37.5°	7901.5	6543.1	4001.7	2594.2	2347.1	2292.4	2198.0	2082.9	1973.5	1954.6
40°	8858.1	6611.0	3467.8	2382.9	2275.4	2196.1	2081.0	1945.2	1839.5	1833.9
42.5°	9735.4	6480.8	2901.8	2237.6	2203.7	2098.0	1977.3	1856.5	1773.5	1771.6
45°	10471.2	6143.1	2426.3	2099.9	2128.2	2009.3	1901.8	1803.7	1739.5	1726.3
47.5°	11163.7	5665.8	2092.4	1954.6	2052.7	1960.3	1869.7	1777.3	1715.0	1705.6
50°	11967.4	5150.7	1858.4	1813.1	1986.7	1943.3	1896.1	1799.9	1696.2	1684.8
52.5°	12940.9	4705.5	1675.4	1688.6	1935.8	1966.0	1964.1	1864.1	1682.9	1667.9
55°	14027.7	4211.1	1537.7	1586.7	1915.0	2007.5	1981.0	1924.4	1694.3	1671.6
57.5°	15097.5	3633.8	1441.4	1509.4	1884.8	2003.7	1899.9	1818.8	1720.7	1688.6
60°	15899.3	2858.4	1367.9	1441.4	1818.8	1941.4	1811.2	1703.7	1715.0	1690.5
62.5°	15952.1	2209.3	1279.2	1383.0	1718.8	1879.2	1752.8	1652.8	1739.5	1716.9
65°	15014.4	1669.7	1194.3	1313.2	1611.3	1839.5	1696.2	1624.5	1790.5	1766.0
67.5°	12641.0	1343.3	1122.6	1241.5	1503.7	1756.5	1645.2	1598.0	1835.8	1792.4
70°	9126.0	1145.2	1052.8	1154.7	1407.5	1662.2	1599.9	1550.9	1713.1	1645.2
72.5°	5618.6	992.4	973.5	1039.6	1333.9	1564.1	1532.0	1462.2	1543.3	1488.6
75°	2805.5	860.3	884.9	926.4	1230.1	1452.8	1418.8	1349.0	1360.3	1349.0
77.5°	1343.3	735.8	781.1	813.2	1096.2	1326.4	1290.5	1218.8	1205.6	1207.5
80°	850.9	615.1	658.5	681.1	979.2	1179.2	1143.3	1071.7	1222.6	1133.9
82.5°	532.1	500.0	511.3	552.8	852.8	1026.4	979.2	915.1	1101.8	871.7
85°	294.3	349.0	364.1	400.0	656.6	858.5	811.3	730.2	654.7	643.4
87.5°	175.5	207.5	213.2	239.6	441.5	620.7	549.0	520.7	432.1	430.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)