

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: P192256

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192256
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-08-LED-E1-T3-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47715 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 445
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

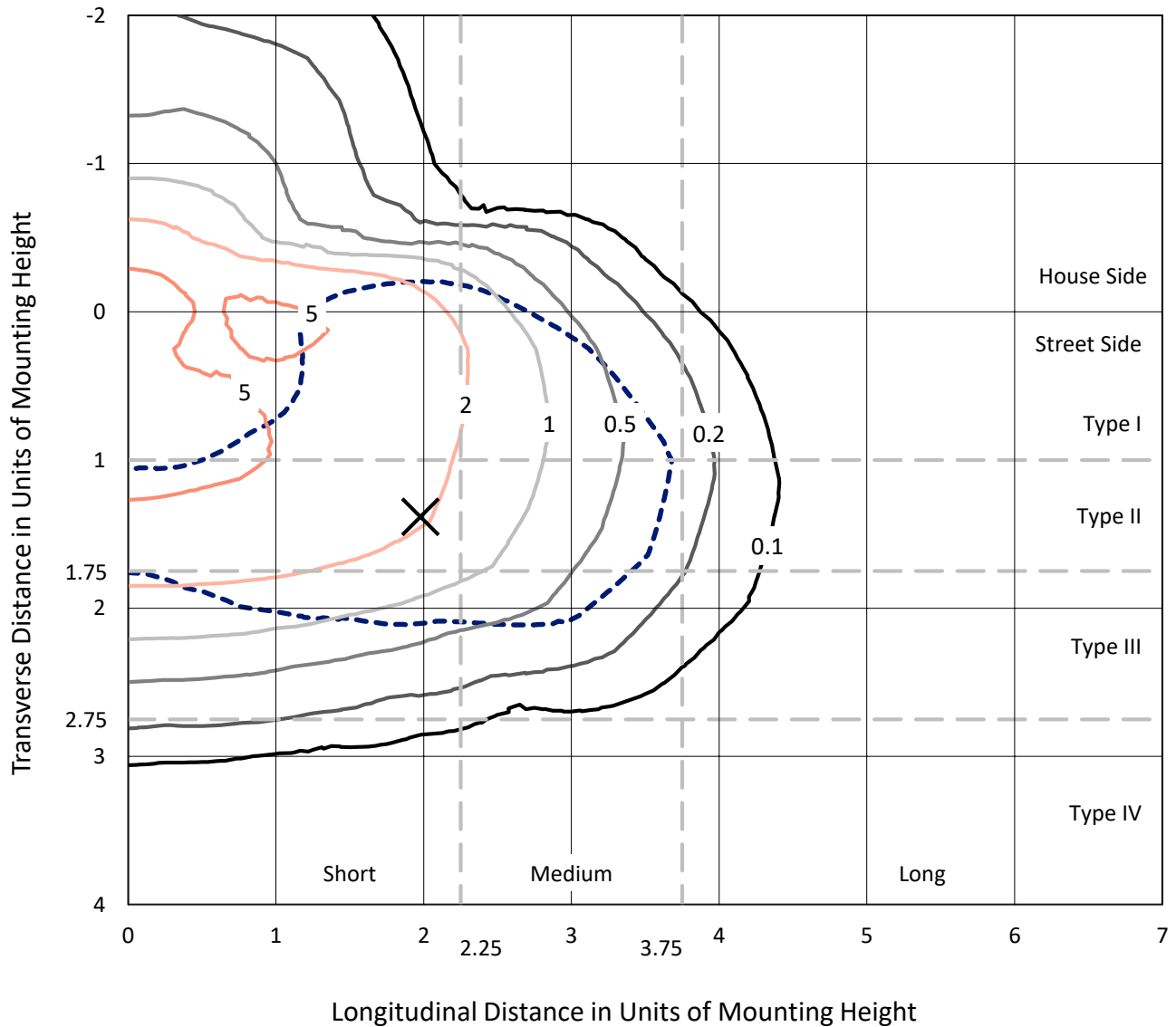


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

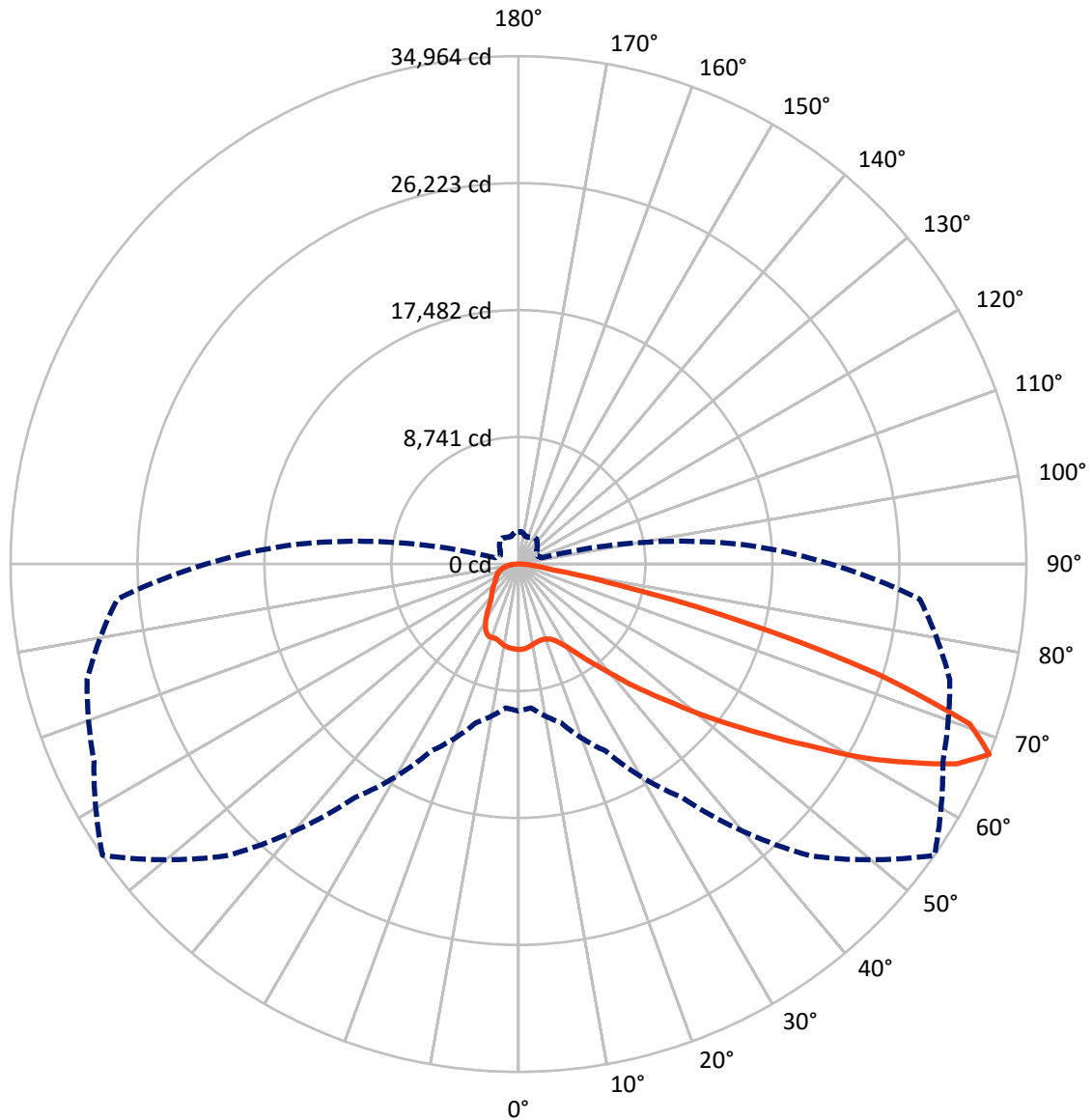


Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - Full Cutoff

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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	10307.5	0.0	10307.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	37407.5	0.0	37407.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	47715.0	0.0	47715.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.2	1.2
10°-20°	1555.4	3.3
20°-30°	2605.5	5.5
30°-40°	4284.5	9.0
40°-50°	7212.1	15.1
50°-60°	11351.4	23.8
60°-70°	13546.6	28.4
70°-80°	5817.2	12.2
80°-90°	793.1	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°	47715.0	100.0
0°-180°	47715.0	100.0



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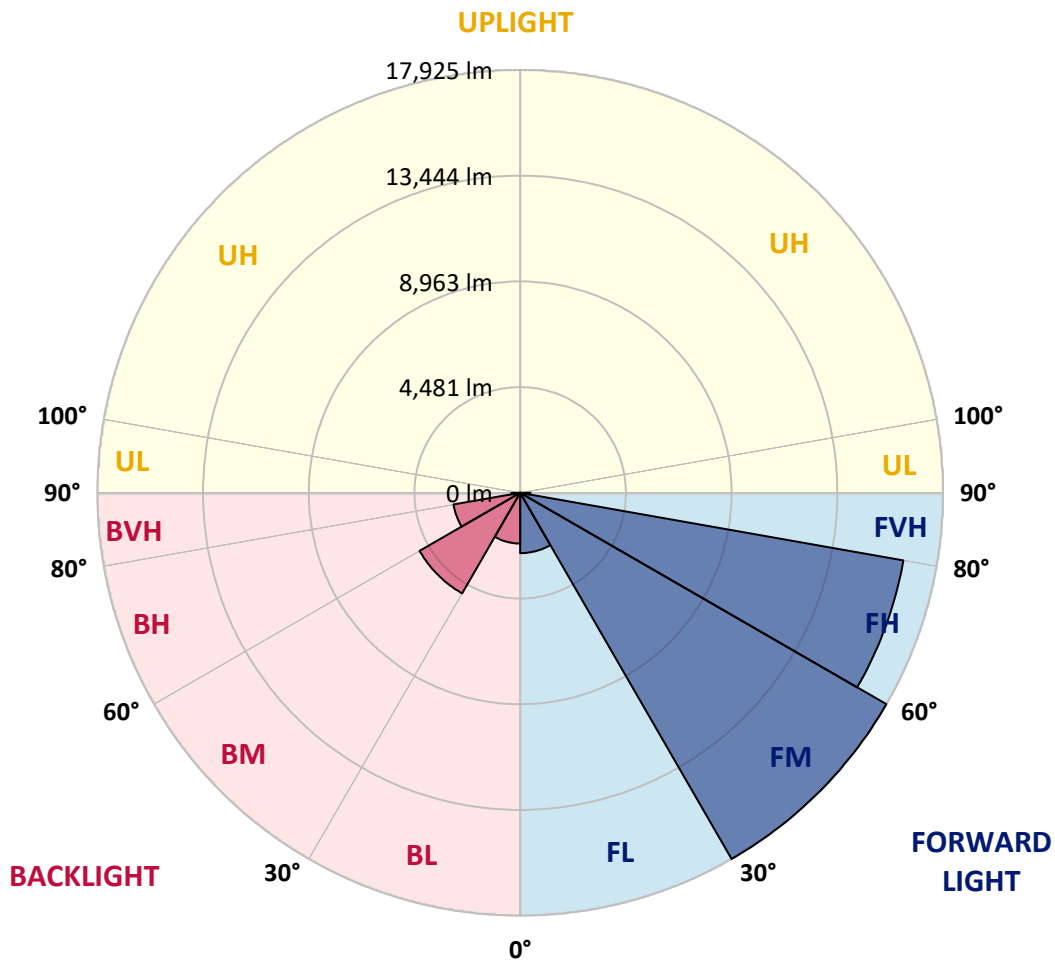
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2557.6	5.4			
FM	(30°-60°)	17925.3	37.6			
FH	(60°-80°)	16495.3	34.6			G5
FVH	(80°-90°)	429.3	0.9			G3/500
BL	(0°-30°)	2152.4	4.5	B3/2500		
BM	(30°-60°)	4922.7	10.3	B3/5000		
BH	(60°-80°)	2868.5	6.0	B4/5000		G4/5000
BVH	(80°-90°)	363.8	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8
2.5°	5833.1	5835.4	5840.0	5858.4	5874.6	5870.0	5872.3	5863.0	5860.7	5846.9	5860.7
5°	5759.3	5766.2	5768.5	5798.5	5816.9	5821.6	5814.6	5803.1	5789.3	5775.5	5782.4
7.5°	5591.1	5609.5	5611.8	5653.3	5683.3	5722.5	5724.8	5727.1	5720.2	5710.9	5724.8
10°	5485.1	5489.7	5487.4	5517.3	5540.4	5584.2	5609.5	5653.3	5671.8	5676.4	5685.6
12.5°	5478.2	5473.6	5466.6	5466.6	5459.7	5478.2	5524.3	5586.5	5630.3	5644.1	5655.6
15°	5551.9	5549.6	5526.6	5492.0	5448.2	5434.4	5473.6	5542.7	5600.3	5630.3	5641.8
17.5°	5717.8	5704.0	5667.1	5588.8	5494.3	5457.4	5462.0	5519.6	5586.5	5625.7	5637.2
20°	6022.1	6022.1	5943.7	5796.2	5628.0	5540.4	5498.9	5533.5	5598.0	5651.0	5667.1
22.5°	6547.5	6552.1	6420.8	6178.8	5895.3	5708.6	5604.9	5598.0	5674.1	5734.0	5752.4
25°	7291.9	7273.5	7089.1	6743.4	6312.4	6003.6	5823.9	5782.4	5846.9	5913.7	5936.8
27.5°	8158.5	8091.6	7872.7	7455.6	6897.8	6446.1	6169.6	6102.7	6164.9	6241.0	6264.0
30°	9015.8	8946.7	8686.2	8229.9	7610.0	7038.4	6642.0	6533.7	6621.3	6729.6	6743.4
32.5°	9873.1	9873.1	9582.7	9050.4	8375.1	7745.9	7271.2	7142.1	7287.3	7418.7	7448.6
35°	10898.7	10903.3	10622.1	9981.5	9255.5	8589.4	8066.3	7971.8	8190.7	8282.9	8354.4
37.5°	12159.4	12184.7	11822.9	11048.5	10253.4	9552.8	8930.5	8801.5	9020.4	9271.6	9502.1
40°	13521.4	13553.7	13155.0	12200.8	11405.7	10672.9	9999.9	9767.1	10131.3	10610.6	10907.9
42.5°	14821.2	14987.2	14602.3	13620.5	12765.5	12007.2	11325.1	10986.3	11442.6	12166.3	12424.4
45°	16699.5	16819.4	16148.7	15259.1	14454.8	13606.7	12703.3	12346.0	12984.4	13897.1	13950.1
47.5°	17950.9	17861.1	17520.0	16966.9	16457.5	15664.7	14305.0	13913.2	14761.3	15835.3	15538.0
50°	18617.0	18644.6	18598.6	18630.8	18649.3	18151.5	16268.5	15731.6	16743.3	18040.8	17356.3
52.5°	19239.2	19054.9	19207.0	19962.9	20875.6	20691.2	18405.0	17844.9	18868.2	20488.4	19278.4
55°	19225.4	18944.3	19439.8	20774.1	22753.8	22965.9	20804.1	20158.8	21115.2	23113.4	21315.7
57.5°	18545.5	18559.4	19322.2	21069.1	24062.9	25104.6	23588.1	22620.2	23498.2	25772.9	23175.6
60°	17609.9	17736.6	18835.9	21020.7	25111.5	26858.4	27003.6	25272.8	25832.9	28190.5	24715.1
62.5°	16100.3	16234.0	17750.4	20518.3	24952.5	28547.7	30091.9	28282.7	28273.5	29656.3	25166.8
65°	13719.6	13680.4	15272.9	18640.0	23618.1	29796.9	33159.4	30884.7	30112.6	29679.3	24258.8
67.5°	10117.4	9942.3	11308.9	14196.7	19631.0	28397.9	34963.9	32239.8	30739.5	27727.3	21484.0
70°	5250.0	5074.8	6181.1	8289.8	12910.7	22163.9	32965.8	31539.2	29354.4	23242.4	16830.9
72.5°	2244.7	2214.8	2664.2	3636.7	6245.6	12783.9	25849.0	27298.6	25187.6	17317.2	11571.7
75°	1509.5	1500.3	1668.6	1982.0	2809.4	5187.8	16176.4	19377.5	18428.0	10737.4	6508.3
77.5°	1184.6	1173.1	1272.2	1424.3	1820.7	2046.5	7179.0	10403.2	9628.8	4673.8	2848.6
80°	926.5	917.3	979.5	1062.4	1309.0	1290.6	2362.3	4139.2	3203.5	1790.7	1385.1
82.5°	730.6	730.6	781.3	783.6	928.8	880.4	1233.0	1823.0	1599.4	1044.0	848.1
85°	668.3	668.3	721.4	585.4	606.1	555.4	765.1	1080.9	1014.0	428.7	368.7
87.5°	336.5	327.3	606.1	518.5	329.6	295.0	373.4	523.2	562.3	237.4	184.4
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°	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8
2.5°	5856.1	5853.8	5858.4	5860.7	5879.2	5904.5	5916.0	5932.2	5941.4	5936.8
5°	5787.0	5791.6	5810.0	5823.9	5856.1	5897.6	5920.7	5939.1	5955.2	5948.3
7.5°	5729.4	5740.9	5768.5	5780.1	5798.5	5810.0	5807.7	5814.6	5828.5	5812.3
10°	5697.1	5710.9	5731.7	5715.5	5671.8	5609.5	5551.9	5522.0	5531.2	5519.6
12.5°	5664.8	5683.3	5667.1	5591.1	5468.9	5388.3	5344.5	5349.1	5369.8	5374.5
15°	5646.4	5653.3	5584.2	5441.3	5316.8	5305.3	5328.4	5323.7	5326.1	5326.1
17.5°	5646.4	5628.0	5498.9	5356.0	5303.0	5282.3	5210.8	5120.9	5081.8	5067.9
20°	5676.4	5628.0	5471.2	5376.8	5261.5	5084.1	4895.1	4729.1	4655.4	4634.7
22.5°	5766.2	5683.3	5549.6	5386.0	5058.7	4761.4	4461.8	4263.6	4129.9	4106.9
25°	5948.3	5856.1	5704.0	5263.8	4736.1	4312.0	3970.9	3749.7	3616.0	3597.6
27.5°	6266.4	6206.4	5787.0	4994.2	4307.4	3853.4	3537.6	3367.1	3268.0	3261.1
30°	6745.7	6715.8	5745.5	4595.5	3779.6	3408.6	3256.5	3157.4	3083.6	3081.3
32.5°	7510.9	7268.9	5609.5	4109.2	3298.0	3092.8	3030.6	2970.7	2913.1	2913.1
35°	8495.0	7716.0	5351.4	3588.3	3005.3	2917.7	2839.3	2744.8	2668.8	2664.2
37.5°	9651.9	7992.5	4888.2	3168.9	2867.0	2800.2	2684.9	2544.3	2410.7	2387.6
40°	10820.3	8075.5	4236.0	2910.8	2779.4	2682.6	2542.0	2376.1	2247.0	2240.1
42.5°	11892.0	7916.5	3544.6	2733.3	2691.8	2562.8	2415.3	2267.8	2166.4	2164.1
45°	12790.8	7504.0	2963.8	2565.1	2599.6	2454.5	2323.1	2203.2	2124.9	2108.8
47.5°	13636.6	6920.9	2555.9	2387.6	2507.5	2394.5	2283.9	2171.0	2094.9	2083.4
50°	14618.4	6291.7	2270.1	2214.8	2426.8	2373.8	2316.2	2198.6	2071.9	2058.1
52.5°	15807.6	5747.8	2046.5	2062.7	2364.6	2401.4	2399.1	2277.0	2055.8	2037.3
55°	17135.1	5144.0	1878.3	1938.2	2339.2	2452.2	2419.9	2350.7	2069.6	2041.9
57.5°	18441.8	4438.8	1760.8	1843.7	2302.3	2447.5	2320.8	2221.7	2101.8	2062.7
60°	19421.3	3491.6	1670.9	1760.8	2221.7	2371.5	2212.5	2081.1	2094.9	2065.0
62.5°	19485.8	2698.7	1562.6	1689.3	2099.5	2295.4	2141.0	2018.9	2124.9	2097.2
65°	18340.4	2039.6	1458.8	1604.0	1968.2	2247.0	2071.9	1984.3	2187.1	2157.2
67.5°	15441.2	1640.9	1371.3	1516.5	1836.8	2145.6	2009.7	1952.0	2242.4	2189.4
70°	11147.6	1398.9	1286.0	1410.4	1719.3	2030.4	1954.3	1894.4	2092.6	2009.7
72.5°	6863.3	1212.2	1189.2	1269.9	1629.4	1910.6	1871.4	1786.1	1885.2	1818.4
75°	3427.0	1050.9	1080.9	1131.6	1502.6	1774.6	1733.1	1647.8	1661.7	1647.8
77.5°	1640.9	898.8	954.1	993.3	1339.0	1620.2	1576.4	1488.8	1472.7	1475.0
80°	1039.4	751.3	804.3	832.0	1196.1	1440.4	1396.6	1309.0	1493.4	1385.1
82.5°	649.9	610.7	624.6	675.3	1041.7	1253.7	1196.1	1117.8	1345.9	1064.7
85°	359.5	426.4	444.8	488.6	802.0	1048.6	991.0	891.9	799.7	785.9
87.5°	214.3	253.5	260.4	292.7	539.3	758.2	670.7	636.1	527.8	525.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)