

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: P191786

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53688 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 511
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

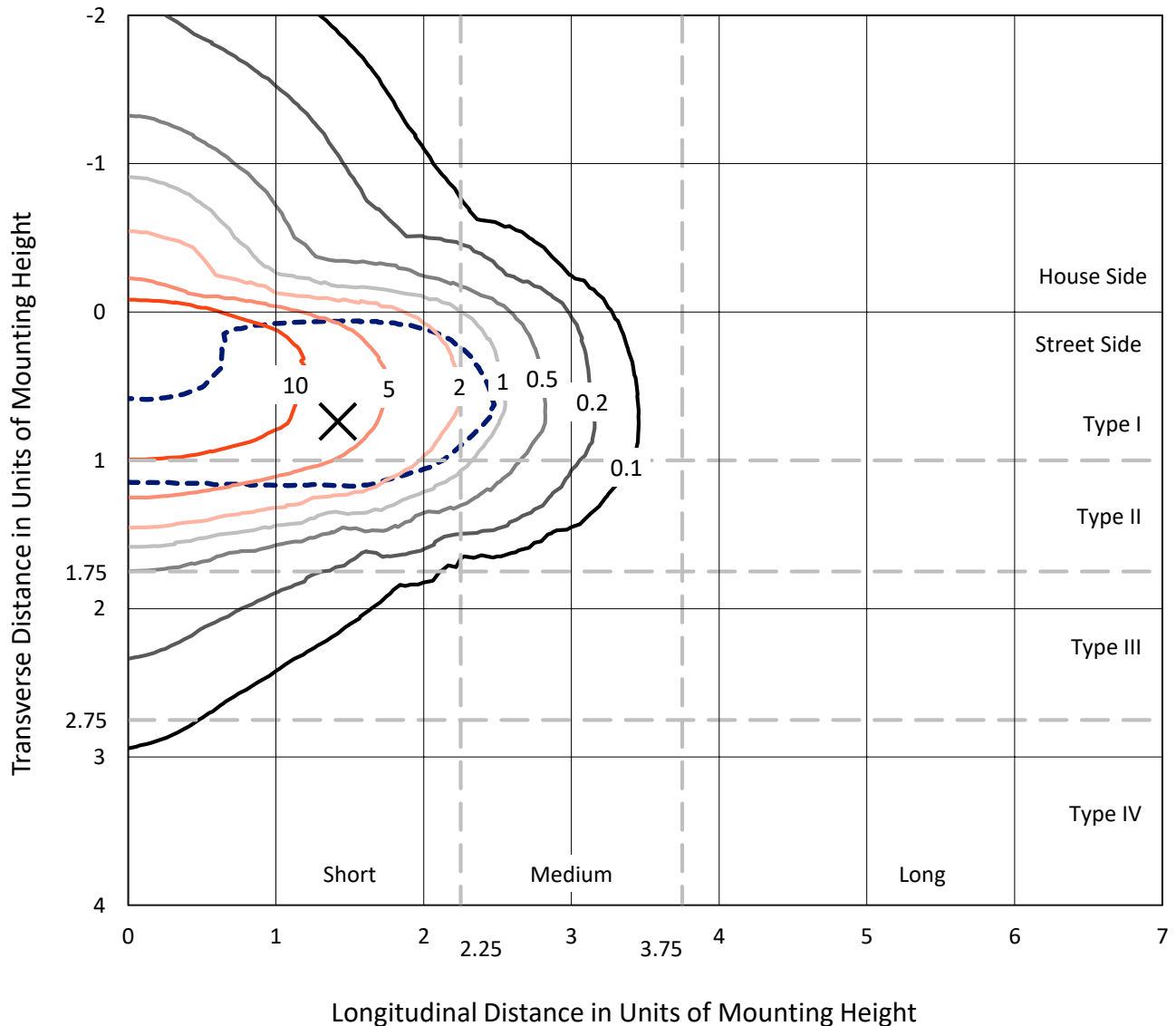


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

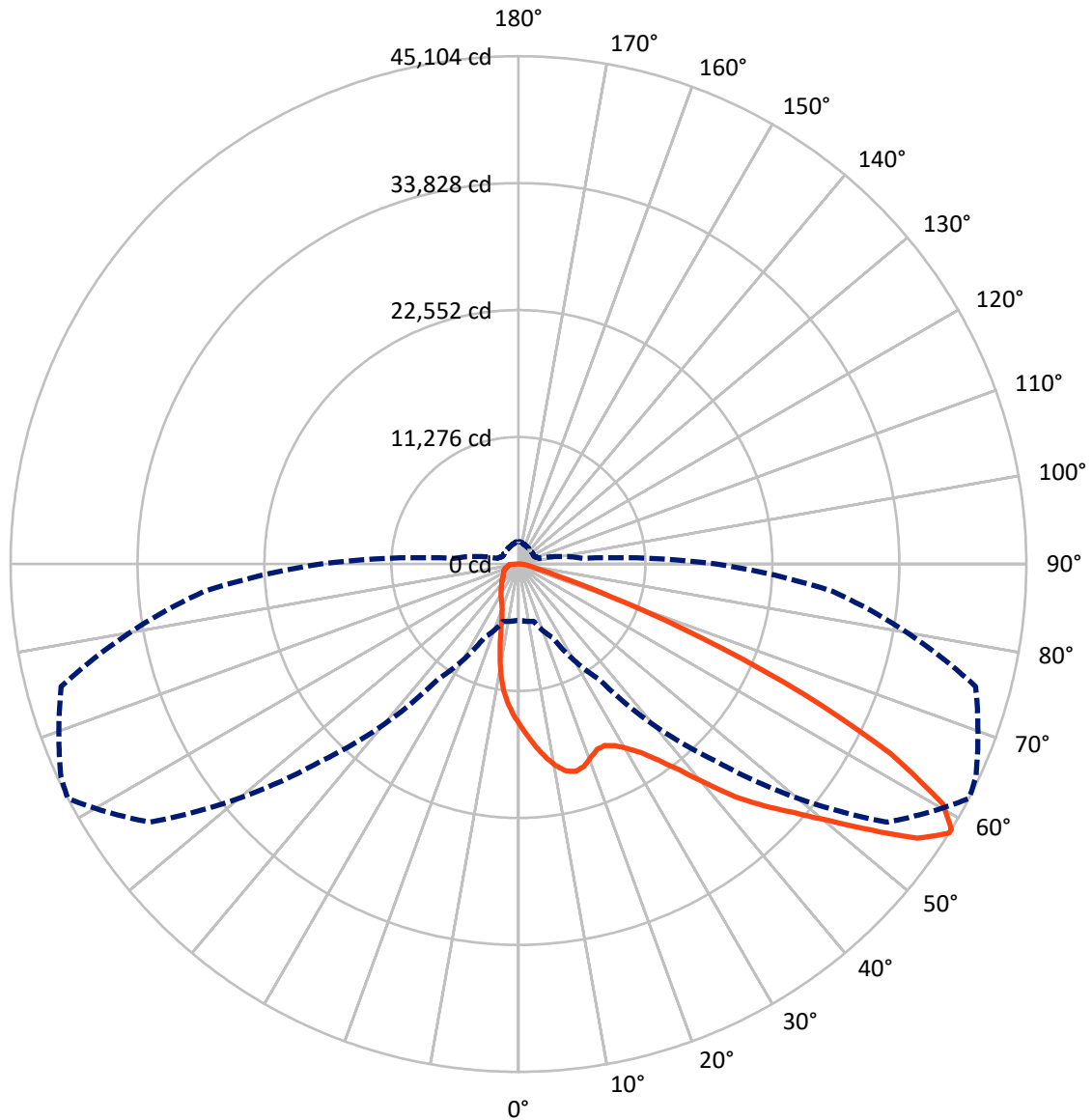


Based on 30 foot mounting height. Maximum calculated value = 19.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8187.6	0.0	8187.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	45500.4	0.0	45500.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	53688.0	0.0	53688.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1275.5	2.4
10°-20°	3260.2	6.1
20°-30°	5270.3	9.8
30°-40°	8366.5	15.6
40°-50°	12242.0	22.8
50°-60°	12804.1	23.8
60°-70°	7564.7	14.1
70°-80°	2131.0	4.0
80°-90°	773.7	1.4
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°	53688.0	100.0
0°-180°	53688.0	100.0



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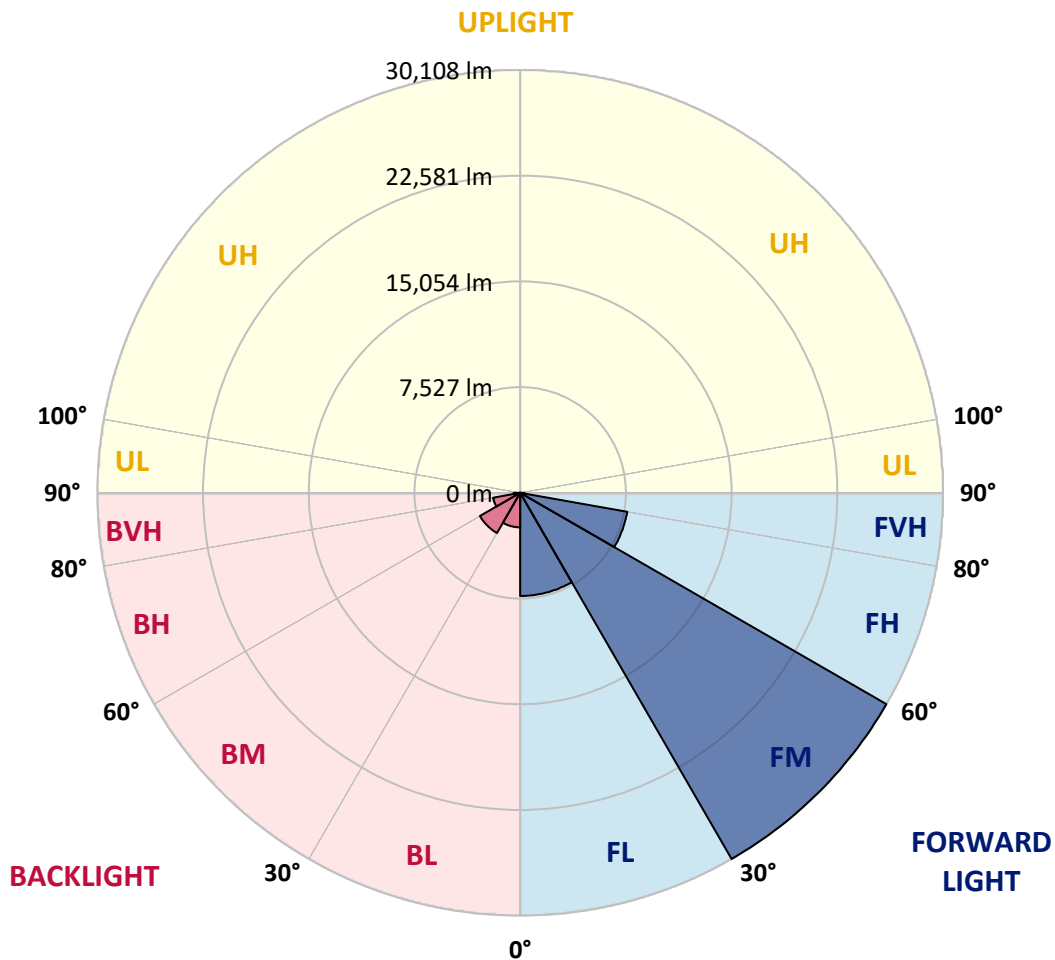
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7345.2	13.7			
FM	(30°-60°)	30107.9	56.1			
FH	(60°-80°)	7742.0	14.4			G4/12000
FVH	(80°-90°)	305.2	0.6			G3/500
BL	(0°-30°)	2460.8	4.6	B3/2500		
BM	(30°-60°)	3304.7	6.2	B3/5000		
BH	(60°-80°)	1953.6	3.6	B3/2500		G3/2500
BVH	(80°-90°)	468.5	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	14261.1	14261.1	14261.1	14261.1	14261.1	14261.1	14261.1	14261.1	14261.1	14261.1	14261.1
2.5°	16296.3	16164.8	16081.4	16008.1	15912.0	15707.2	15431.6	15257.2	15168.7	14867.9	14511.4
5°	17894.0	17777.7	17691.8	17593.2	17421.3	17100.2	16655.3	16301.3	16126.9	15525.2	14812.3
7.5°	17519.9	17567.9	17717.1	17977.5	18199.9	18157.0	17760.0	17310.0	17080.0	16243.2	15161.1
10°	15264.8	15348.2	15606.1	16215.4	17201.3	18212.6	18521.0	18210.0	17977.5	16953.6	15520.1
12.5°	14812.3	14809.7	14830.0	14991.8	15578.3	17001.6	18546.3	18859.8	18720.7	17631.1	15886.7
15°	14996.8	15001.9	14986.7	15055.0	15237.0	15800.7	17772.7	19110.1	19208.7	18313.7	16265.9
17.5°	15482.2	15469.6	15411.4	15411.4	15477.1	15697.1	16862.6	18877.5	19332.5	18917.9	16599.6
20°	16296.3	16238.1	16083.9	15942.3	15871.5	15990.4	16488.4	18341.5	19117.6	19446.3	16875.2
22.5°	17282.2	17236.7	16986.4	16683.1	16437.8	16435.3	16680.5	17873.8	18746.0	19944.3	17107.8
25°	18556.4	18483.1	18111.5	17626.1	17196.3	17031.9	17100.2	17851.1	18543.8	20485.4	17315.1
27.5°	20053.0	19919.1	19479.2	18778.9	18146.8	17815.7	17717.1	18263.1	18728.3	21155.3	17603.3
30°	21868.2	21714.0	21150.3	20237.6	19345.2	18801.6	18591.8	18993.8	19340.1	21971.9	18065.9
32.5°	23933.7	23711.2	23059.0	22052.8	20879.7	20050.5	19709.2	19959.5	20235.1	22955.3	18644.9
35°	26788.0	26522.5	25579.5	24191.6	22866.8	21726.7	21180.6	21362.6	21630.6	24421.6	19481.7
37.5°	28734.6	28615.8	27988.8	26684.3	25243.3	23931.2	23086.8	23193.0	23344.7	26254.5	20553.6
40°	28716.9	28764.9	28777.6	28790.2	27809.3	26552.8	25645.2	25534.0	25503.7	28266.9	21772.2
42.5°	27278.4	27475.6	28112.7	29404.6	30001.2	29424.8	28593.0	28272.0	28112.7	30638.3	23064.0
45°	25076.4	25182.6	26375.9	28898.9	31123.7	32268.9	31639.4	30628.2	30340.0	32817.5	24136.0
47.5°	23941.3	24057.6	24808.4	27559.0	31111.0	34567.0	34931.0	33004.6	32488.9	34713.6	25061.3
50°	21238.7	21481.4	22427.0	25228.1	29975.9	35623.7	38371.8	35836.1	34769.2	36559.1	25989.1
52.5°	16276.0	16650.2	17709.5	21395.5	27096.4	35100.4	41124.9	39269.3	37762.5	38470.4	26785.4
55°	10266.7	10544.8	11434.7	15110.6	21676.1	32377.6	42169.0	42983.1	41643.2	40280.5	27475.6
57.5°	5582.1	5706.0	6039.7	8342.8	14099.3	26358.2	40647.1	45096.6	44540.4	41817.6	27996.4
58°	4995.6	5079.0	5286.3	7230.4	12504.1	24712.4	39972.1	45104.2	44826.1	42042.6	28036.8
60°	3706.2	3663.2	3478.7	4125.9	6959.9	17072.4	35891.7	43299.1	44115.7	42318.2	27839.7
62.5°	3256.2	3152.6	2775.9	2732.9	3385.2	7865.0	27463.0	37090.0	39019.0	40745.7	26641.3
65°	3059.0	2947.8	2462.4	2305.6	2442.2	3327.0	16177.4	27816.9	30236.3	35977.7	23577.2
67.5°	2912.4	2768.3	2262.7	2047.8	2057.9	2199.5	6484.6	17519.9	20242.7	27316.3	18339.0
70°	2770.8	2614.1	2093.3	1845.5	1787.4	1739.3	2578.7	8770.0	11240.0	17254.4	11692.6
72.5°	2619.1	2464.9	1944.1	1686.3	1572.5	1413.2	1683.7	3587.4	5010.7	8163.3	5304.0
75°	2399.2	2260.1	1795.0	1544.7	1382.9	1170.5	1271.6	1873.3	2247.5	3251.2	2555.9
77.5°	2128.7	2014.9	1628.1	1428.4	1226.1	950.6	978.4	1299.5	1441.0	1860.7	1519.4
80°	1529.5	1570.0	1448.6	1284.3	1092.1	771.1	750.9	948.0	1023.9	1195.8	988.5
82.5°	1074.5	1097.2	1198.3	1049.2	902.5	606.7	553.7	667.4	712.9	786.2	533.4
85°	740.7	715.5	821.6	730.6	652.3	404.5	379.2	452.5	480.3	487.9	275.6
87.5°	444.9	444.9	475.3	391.9	351.4	209.8	204.8	257.9	275.6	262.9	151.7
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°	14261.1	14261.1	14261.1	14261.1	14261.1	14261.1	14261.1	14261.1	14261.1	14261.1	14261.1
2.5°	14299.0	14119.5	13737.8	13431.9	13045.1	12643.1	12418.1	12178.0	12013.6	11894.8	12084.4
5°	14407.8	14041.2	13252.4	12504.1	11677.4	10817.8	10165.6	9558.8	9136.6	8873.7	9121.5
7.5°	14579.7	14015.9	12759.4	11480.2	9996.2	8565.3	7286.0	6484.6	6016.9	5786.9	5931.0
10°	14776.9	13975.4	12180.5	10092.3	7968.6	6166.1	5210.5	4886.9	4780.7	4737.7	4757.9
12.5°	14941.2	13889.5	11470.1	8413.6	5984.1	4869.2	4593.6	4586.0	4608.8	4613.8	4621.4
15°	15057.5	13763.1	10415.9	6664.1	4785.7	4436.9	4421.7	4467.2	4510.2	4527.9	4538.0
17.5°	15135.9	13502.7	9225.1	5268.6	4287.7	4227.0	4262.4	4320.6	4366.1	4378.7	4388.8
20°	15128.3	13120.9	7806.8	4393.9	4017.2	4017.2	4077.9	4123.4	4125.9	4110.7	4118.3
22.5°	15049.9	12597.6	6431.5	3928.7	3777.0	3820.0	3880.7	3837.7	3660.7	3544.4	3552.0
25°	14918.4	11973.2	5253.4	3632.9	3554.5	3630.4	3612.7	3289.1	3036.3	2922.5	2922.5
27.5°	14802.1	11235.0	4348.4	3375.0	3332.1	3425.6	3112.1	2818.9	2712.7	2659.6	2641.9
30°	14718.7	10438.6	3744.1	3127.3	3122.2	3054.0	2700.0	2619.1	2601.4	2558.5	2543.3
32.5°	14738.9	9632.1	3357.3	2909.9	2927.6	2614.1	2502.8	2520.5	2505.4	2459.9	2439.6
35°	14905.8	8866.1	3104.5	2712.7	2659.6	2361.3	2386.5	2419.4	2414.4	2351.2	2330.9
37.5°	15204.1	8140.5	2937.7	2548.3	2320.8	2234.9	2275.3	2325.9	2313.2	2270.3	2255.1
40°	15517.6	7458.0	2801.2	2419.4	2121.1	2148.9	2184.3	2212.1	2224.7	2237.4	2227.3
42.5°	15823.5	6745.0	2634.3	2287.9	2037.7	2068.0	2083.2	2111.0	2179.2	2227.3	2224.7
45°	16005.5	6075.1	2462.4	2100.9	1971.9	1989.6	1979.5	2035.1	2118.6	2196.9	2199.5
47.5°	16207.8	5554.3	2325.9	1929.0	1908.7	1921.4	1891.0	1946.7	2022.5	2118.6	2128.7
50°	16453.0	5243.3	2217.2	1792.4	1822.8	1822.8	1815.2	1865.8	1971.9	2083.2	2103.4
52.5°	16731.1	5182.6	2126.1	1693.8	1736.8	1734.3	1741.9	1817.7	1934.0	2042.7	2060.4
55°	17069.9	5347.0	2027.6	1620.5	1653.4	1663.5	1688.8	1774.7	1873.3	1997.2	2004.8
57.5°	17464.3	5680.7	1949.2	1562.4	1577.5	1610.4	1650.9	1729.2	1835.4	1971.9	1979.5
58°	17530.0	5751.5	1936.5	1557.3	1562.4	1600.3	1645.8	1721.6	1827.8	1977.0	1984.6
60°	17532.5	5986.6	1908.7	1534.6	1504.2	1567.4	1618.0	1693.8	1815.2	1994.7	2012.4
62.5°	16910.6	5984.1	1888.5	1501.7	1443.6	1521.9	1580.1	1668.6	1802.5	2037.7	2073.1
65°	14890.6	5438.0	1792.4	1451.1	1395.5	1481.5	1547.2	1650.9	1837.9	2224.7	2247.5
67.5°	11647.0	4457.1	1612.9	1380.4	1332.3	1441.0	1527.0	1648.3	1875.9	2267.7	2282.9
70°	7700.7	3334.6	1415.7	1299.5	1266.6	1393.0	1537.1	1734.3	1832.9	2176.7	2136.3
72.5°	3997.0	2341.0	1256.5	1198.3	1190.7	1350.0	1683.7	1724.2	1789.9	2047.8	1997.2
75°	2098.3	1625.6	1117.4	1087.1	1099.7	1339.9	1987.1	1678.7	1734.3	1959.3	2055.4
77.5°	1284.3	1312.1	998.6	986.0	1011.2	1309.6	1984.6	1620.5	1653.4	1802.5	1908.7
80°	859.6	1064.3	907.6	910.1	927.8	1198.3	1782.3	1529.5	1554.8	1704.0	1812.7
82.5°	543.5	629.5	824.2	867.1	844.4	988.5	1514.3	1393.0	1428.4	1949.2	2060.4
85°	275.6	394.4	715.5	834.3	761.0	692.7	1228.7	1221.1	1238.8	1405.6	1468.8
87.5°	126.4	217.4	558.7	728.1	573.9	432.3	892.4	905.1	975.9	998.6	998.6
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)