

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: P191466

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191466
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-T3-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53544.3 lumens
Efficiency: N/A
Efficacy: 104.8 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): 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

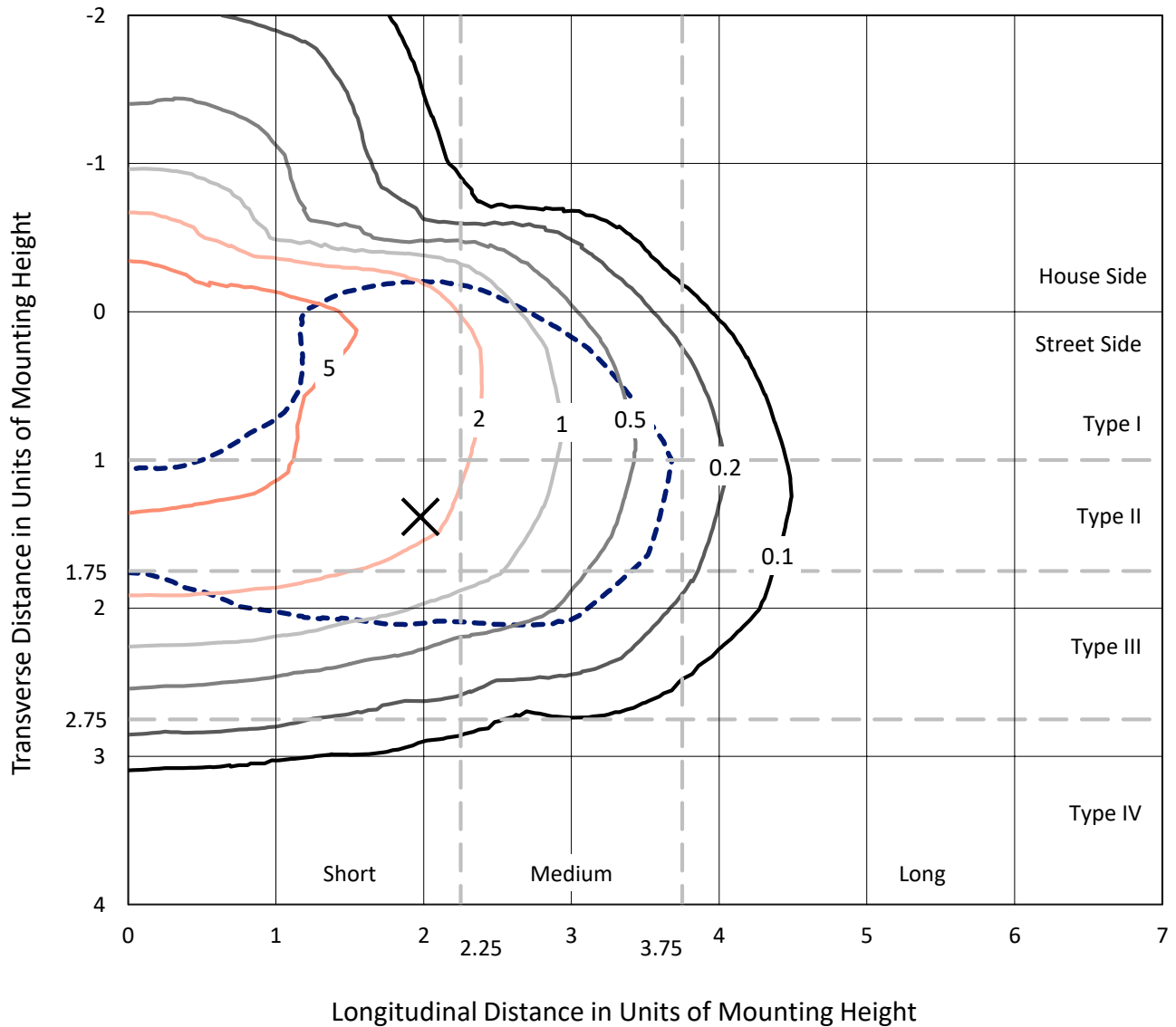


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

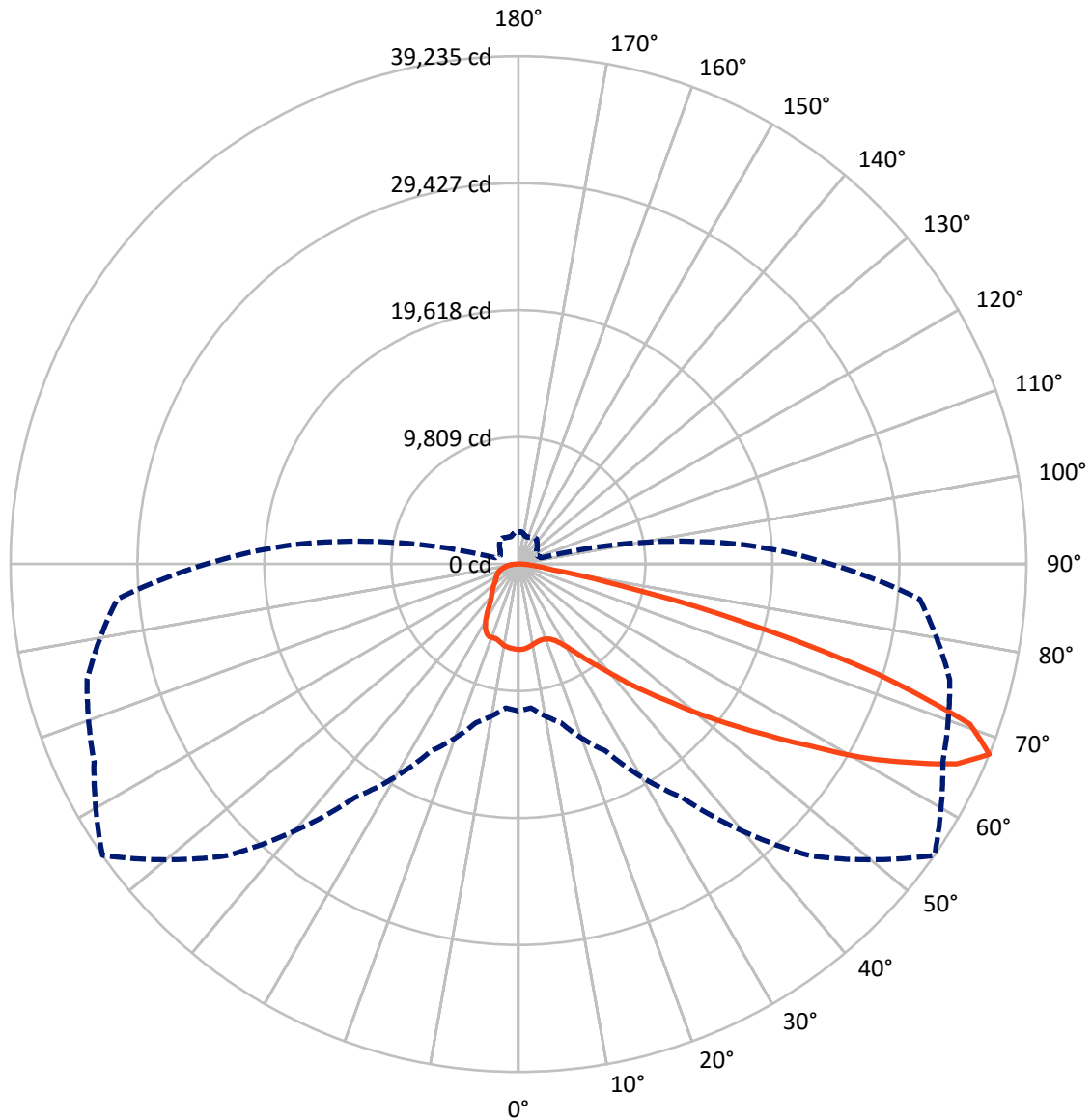


Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - Full Cutoff

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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	11566.7	0.0	11566.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	41977.6	0.0	41977.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	53544.3	0.0	53544.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.3	1.2
10°-20°	1745.4	3.3
20°-30°	2923.8	5.5
30°-40°	4807.9	9.0
40°-50°	8093.2	15.1
50°-60°	12738.2	23.8
60°-70°	15201.6	28.4
70°-80°	6527.9	12.2
80°-90°	890.0	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°	53544.3	100.0
0°-180°	53544.3	100.0



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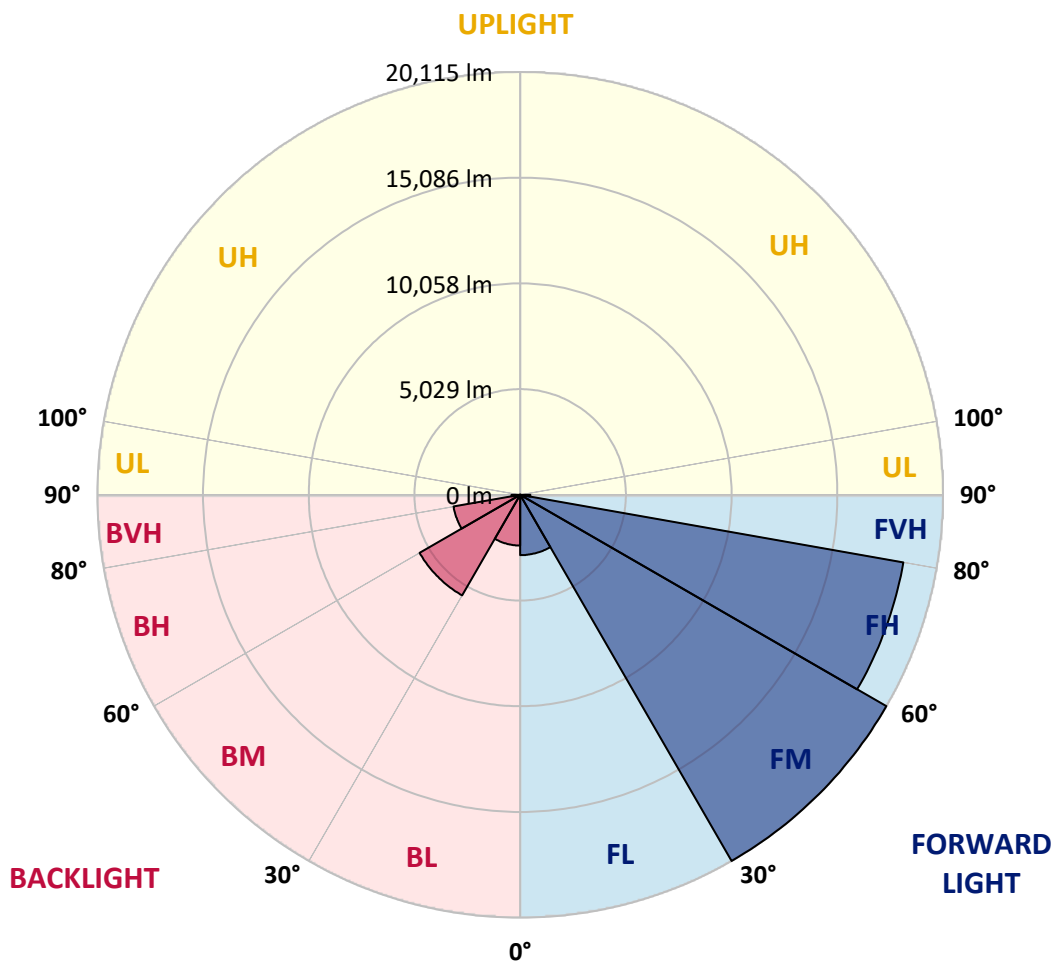
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2870.1	5.4			
FM	(30°-60°)	20115.2	37.6			
FH	(60°-80°)	18510.5	34.6			G5
FVH	(80°-90°)	481.8	0.9			G3/500
BL	(0°-30°)	2415.4	4.5	B3/2500		
BM	(30°-60°)	5524.1	10.3	B4/8500		
BH	(60°-80°)	3219.0	6.0	B4/5000		G4/5000
BVH	(80°-90°)	408.2	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°	6602.6	6602.6	6602.6	6602.6	6602.6	6602.6	6602.6	6602.6	6602.6	6602.6	6602.6
2.5°	6545.7	6548.3	6553.4	6574.2	6592.3	6587.1	6589.6	6579.3	6576.8	6561.2	6576.8
5°	6462.9	6470.7	6473.3	6506.9	6527.6	6532.8	6525.0	6512.1	6496.6	6481.0	6488.8
7.5°	6274.2	6294.8	6297.4	6343.9	6377.6	6421.6	6424.1	6426.7	6419.0	6408.6	6424.1
10°	6155.2	6160.3	6157.8	6191.4	6217.3	6266.4	6294.8	6343.9	6364.7	6369.8	6380.1
12.5°	6147.4	6142.2	6134.5	6134.5	6126.8	6147.4	6199.2	6268.9	6318.2	6333.6	6346.6
15°	6230.2	6227.6	6201.7	6163.0	6113.8	6098.3	6142.2	6219.8	6284.5	6318.2	6331.0
17.5°	6416.4	6400.9	6359.5	6271.6	6165.5	6124.1	6129.3	6194.0	6268.9	6312.9	6325.8
20°	6757.8	6757.8	6669.8	6504.3	6315.5	6217.3	6170.7	6209.5	6281.9	6341.4	6359.5
22.5°	7347.4	7352.6	7205.2	6933.7	6615.5	6406.0	6289.7	6281.9	6367.3	6434.5	6455.2
25°	8182.8	8162.1	7955.2	7567.3	7083.6	6737.1	6535.3	6488.8	6561.2	6636.2	6662.1
27.5°	9155.2	9080.2	8834.5	8366.4	7740.6	7233.6	6923.3	6848.2	6918.1	7003.4	7029.3
30°	10117.3	10039.6	9747.4	9235.4	8539.7	7898.3	7453.4	7331.9	7430.2	7551.7	7567.3
32.5°	11079.4	11079.4	10753.5	10156.1	9398.3	8692.2	8159.5	8014.7	8177.6	8325.0	8358.6
35°	12230.2	12235.4	11919.8	11200.9	10386.2	9638.9	9051.8	8945.7	9191.4	9294.8	9375.0
37.5°	13644.8	13673.3	13267.3	12398.3	11506.0	10719.8	10021.5	9876.7	10122.4	10404.3	10662.9
40°	15173.3	15209.5	14762.1	13691.4	12799.2	11976.7	11221.6	10960.4	11369.0	11906.9	12240.5
42.5°	16632.0	16818.1	16386.2	15284.5	14325.0	13474.2	12708.6	12328.5	12840.6	13652.6	13942.3
45°	18739.6	18874.2	18121.6	17123.3	16220.7	15269.0	14255.2	13854.3	14570.7	15594.9	15654.3
47.5°	20144.0	20043.2	19660.4	19039.7	18468.1	17578.5	16052.7	15613.0	16564.6	17769.9	17436.2
50°	20891.4	20922.4	20870.8	20907.0	20927.6	20369.0	18256.1	17653.5	18788.8	20244.9	19476.8
52.5°	21589.7	21382.8	21553.5	22401.8	23425.9	23219.0	20653.5	20025.1	21173.3	22991.4	21633.7
55°	21574.1	21258.7	21814.7	23312.1	25533.7	25771.6	23345.8	22621.6	23694.9	25937.1	23919.9
57.5°	20811.2	20826.8	21682.8	23643.2	27002.6	28171.7	26469.9	25383.7	26369.0	28921.6	26007.0
60°	19761.3	19903.5	21137.1	23588.8	28179.3	30139.7	30302.7	28360.4	28988.9	31634.5	27734.5
62.5°	18067.3	18217.3	19919.0	23025.1	28000.9	32035.4	33768.1	31738.0	31727.6	33279.4	28241.4
65°	15395.7	15351.7	17138.8	20917.3	26503.5	33437.1	37210.4	34657.8	33791.4	33305.2	27222.5
67.5°	11353.4	11156.9	12690.5	15931.0	22029.3	31867.3	39235.4	36178.5	34494.9	31114.7	24108.7
70°	5891.4	5694.9	6936.2	9302.6	14488.0	24871.6	36993.2	35392.4	32940.6	26082.0	18887.2
72.5°	2519.0	2485.4	2989.7	4081.1	7008.6	14345.8	29007.0	30633.7	28264.7	19432.8	12985.3
75°	1694.0	1683.7	1872.4	2224.1	3152.6	5821.6	18152.7	21744.9	20679.4	12049.1	7303.5
77.5°	1329.3	1316.3	1427.6	1598.3	2043.1	2296.5	8056.0	11674.1	10805.2	5244.9	3196.5
80°	1039.6	1029.3	1099.2	1192.2	1469.0	1448.3	2650.9	4644.8	3594.9	2009.5	1554.3
82.5°	819.8	819.8	876.8	879.3	1042.3	988.0	1383.6	2045.7	1794.9	1171.6	951.8
85°	750.0	750.0	809.5	656.9	680.2	623.3	858.7	1212.9	1137.9	481.0	413.8
87.5°	377.6	367.2	680.2	581.9	369.8	331.0	419.0	587.1	631.1	266.4	206.9
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°	6602.6	6602.6	6602.6	6602.6	6602.6	6602.6	6602.6	6602.6	6602.6	6602.6
2.5°	6571.5	6569.0	6574.2	6576.8	6597.4	6625.9	6638.8	6657.0	6667.3	6662.1
5°	6494.0	6499.1	6519.9	6535.3	6571.5	6618.1	6644.0	6664.6	6682.7	6675.1
7.5°	6429.3	6442.2	6473.3	6486.2	6506.9	6519.9	6517.2	6525.0	6540.5	6522.4
10°	6393.1	6408.6	6431.9	6413.8	6364.7	6294.8	6230.2	6196.5	6207.0	6194.0
12.5°	6356.9	6377.6	6359.5	6274.2	6137.1	6046.6	5997.5	6002.6	6025.9	6031.0
15°	6336.3	6343.9	6266.4	6106.1	5966.4	5953.5	5979.4	5974.1	5976.7	5976.7
17.5°	6336.3	6315.5	6170.7	6010.3	5950.9	5927.6	5847.4	5746.5	5702.6	5687.1
20°	6369.8	6315.5	6139.6	6033.7	5904.4	5705.2	5493.1	5306.9	5224.1	5200.9
22.5°	6470.7	6377.6	6227.6	6044.0	5676.8	5343.1	5006.9	4784.4	4634.5	4608.6
25°	6675.1	6571.5	6400.9	5906.9	5314.6	4838.8	4456.1	4207.8	4057.7	4037.1
27.5°	7031.9	6964.7	6494.0	5604.3	4833.6	4324.1	3969.9	3778.5	3667.3	3659.5
30°	7569.8	7536.2	6447.5	5156.9	4241.4	3825.0	3654.3	3543.1	3460.3	3457.8
32.5°	8428.5	8156.9	6294.8	4611.3	3700.8	3470.7	3400.9	3333.6	3268.9	3268.9
35°	9532.8	8658.7	6005.2	4026.7	3372.5	3274.2	3186.2	3080.2	2994.8	2989.7
37.5°	10831.1	8969.0	5485.4	3556.1	3217.3	3142.2	3012.9	2855.2	2705.2	2679.3
40°	12142.2	9062.1	4753.4	3266.4	3119.0	3010.3	2852.6	2666.4	2521.6	2513.8
42.5°	13344.8	8883.6	3977.6	3067.2	3020.7	2875.8	2710.3	2544.8	2431.0	2428.5
45°	14353.4	8420.7	3325.8	2878.5	2917.3	2754.3	2606.9	2472.4	2384.5	2366.4
47.5°	15302.6	7766.3	2868.1	2679.3	2813.8	2687.1	2562.9	2436.3	2350.8	2338.0
50°	16404.3	7060.4	2547.5	2485.4	2723.3	2663.8	2599.1	2467.3	2325.0	2309.5
52.5°	17738.8	6450.0	2296.5	2314.6	2653.4	2694.9	2692.2	2555.1	2306.9	2286.2
55°	19228.5	5772.4	2107.8	2175.0	2625.0	2751.7	2715.5	2638.0	2322.4	2291.4
57.5°	20694.9	4981.1	1975.8	2069.0	2583.7	2746.5	2604.3	2493.1	2358.6	2314.6
60°	21794.0	3918.1	1875.0	1975.8	2493.1	2661.2	2482.8	2335.4	2350.8	2317.3
62.5°	21866.4	3028.4	1753.4	1895.7	2356.1	2575.9	2402.6	2265.5	2384.5	2353.5
65°	20581.1	2288.8	1637.0	1800.0	2208.7	2521.6	2325.0	2226.8	2454.4	2420.7
67.5°	17327.7	1841.4	1538.8	1701.7	2061.2	2407.7	2255.2	2190.5	2516.4	2456.9
70°	12509.5	1569.8	1443.1	1582.8	1929.3	2278.4	2193.1	2125.9	2348.3	2255.2
72.5°	7701.7	1360.3	1334.4	1425.0	1828.4	2144.0	2100.0	2004.3	2115.6	2040.5
75°	3845.7	1179.4	1212.9	1269.8	1686.2	1991.4	1944.8	1849.2	1864.6	1849.2
77.5°	1841.4	1008.6	1070.7	1114.6	1502.6	1818.1	1769.0	1670.7	1652.6	1655.1
80°	1166.4	843.1	902.5	933.6	1342.2	1616.4	1567.3	1469.0	1675.9	1554.3
82.5°	729.3	685.4	700.8	757.8	1168.9	1406.9	1342.2	1254.3	1510.4	1194.8
85°	403.5	478.4	499.1	548.3	900.0	1176.7	1112.0	1000.9	897.4	881.9
87.5°	240.5	284.5	292.3	328.5	605.2	850.9	752.6	713.8	592.3	589.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)