

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: P193326

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50260.4 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-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

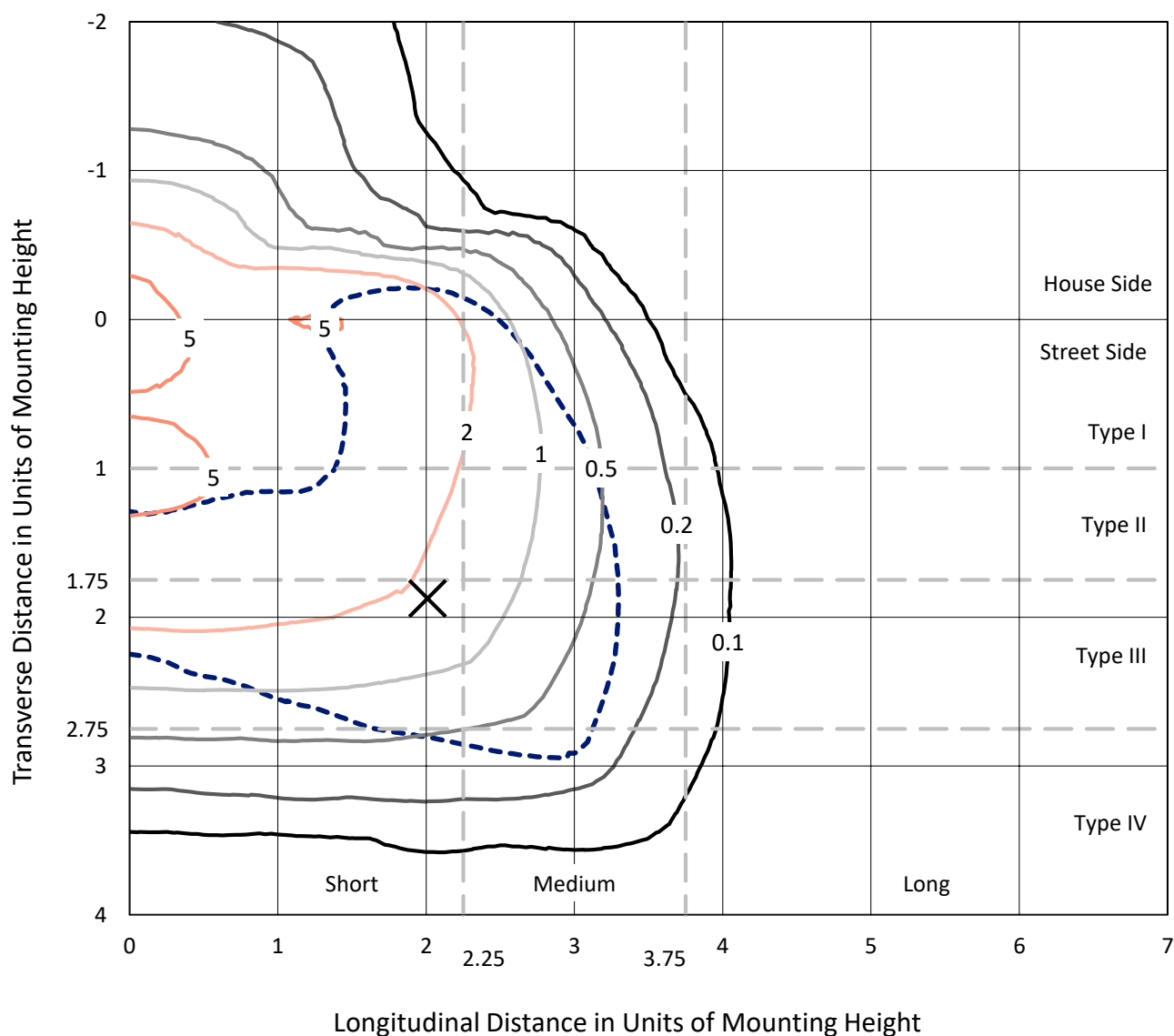


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

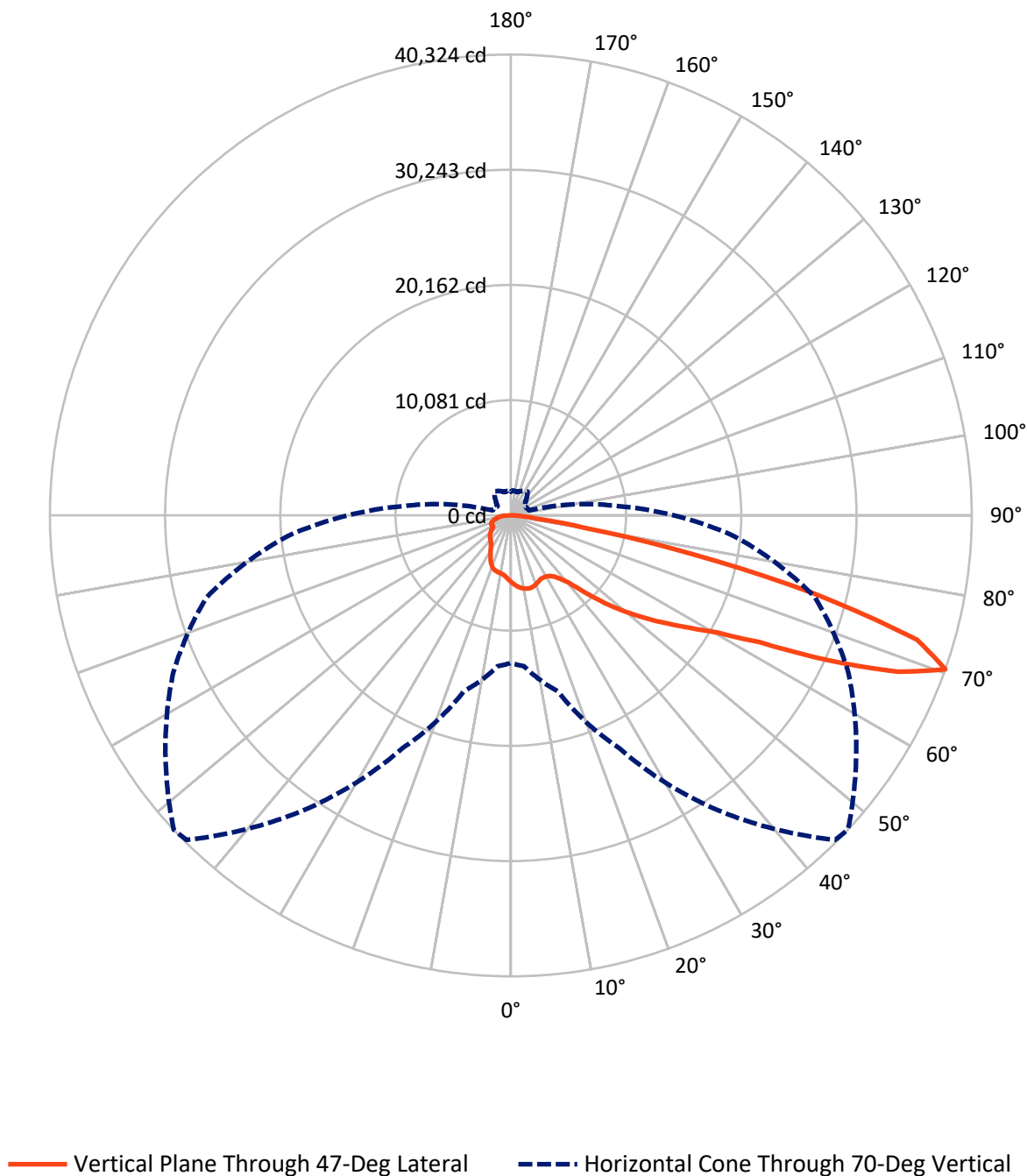


Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10485.3	0.0	10485.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	39775.1	0.0	39775.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	50260.4	0.0	50260.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.8	1.1
10°-20°	1639.3	3.3
20°-30°	2420.8	4.8
30°-40°	3518.6	7.0
40°-50°	6332.3	12.6
50°-60°	10970.1	21.8
60°-70°	15657.4	31.2
70°-80°	8037.7	16.0
80°-90°	1125.3	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°	50260.4	100.0
0°-180°	50260.4	100.0

Coefficient of Utilization



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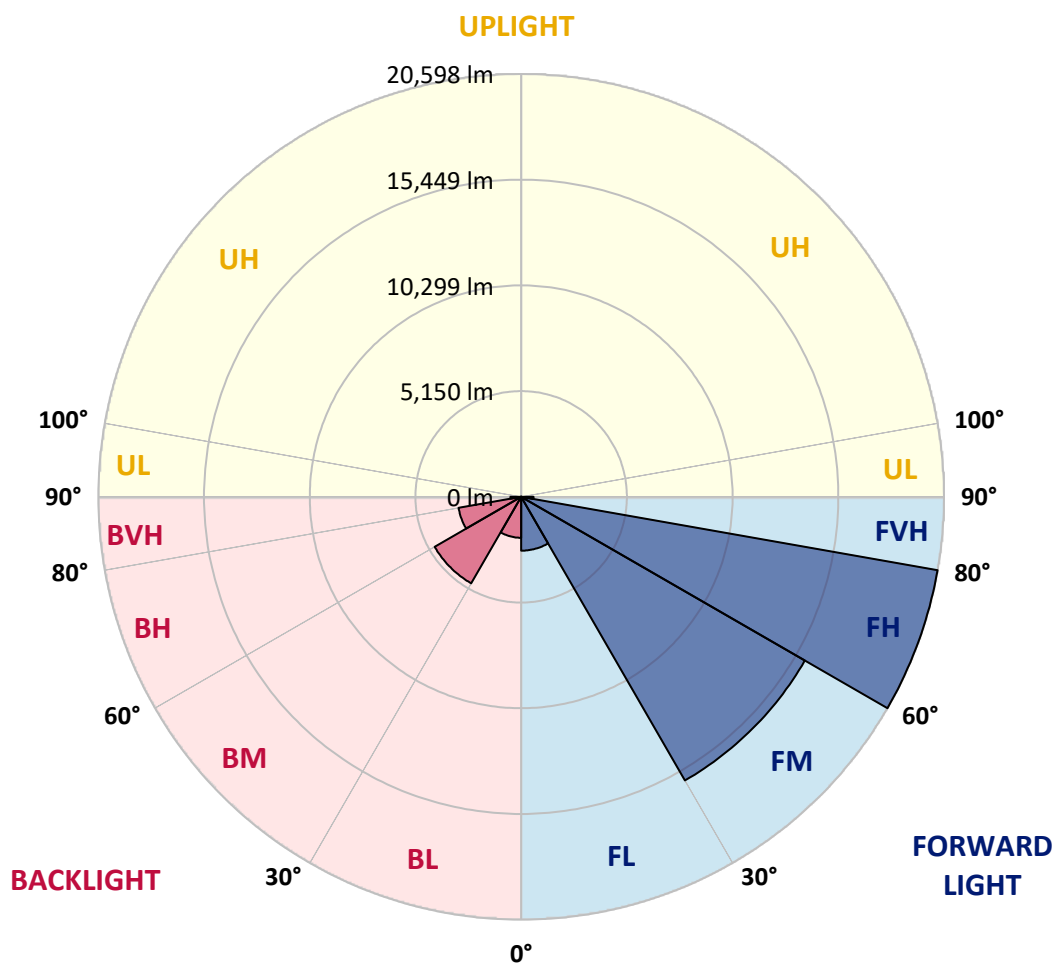
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2622.5	5.2			
FM	(30°-60°)	15954.0	31.7			
FH	(60°-80°)	20598.1	41.0			G5
FVH	(80°-90°)	600.5	1.2			G4/750
BL	(0°-30°)	1996.5	4.0	B3/2500		
BM	(30°-60°)	4867.0	9.7	B3/5000		
BH	(60°-80°)	3097.0	6.2	B4/5000		G4/5000
BVH	(80°-90°)	524.8	1.0			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7
2.5°	6174.1	6161.9	6157.0	6147.2	6135.0	6073.8	6061.6	6017.6	5956.5	5892.9	5826.9
5°	6580.0	6577.5	6550.6	6501.8	6423.5	6289.0	6257.3	6149.6	6005.3	5866.0	5726.6
7.5°	6937.0	6915.0	6863.6	6765.9	6628.9	6445.5	6401.5	6252.4	6054.3	5863.5	5675.3
10°	7198.6	7186.4	7073.9	6939.4	6761.0	6558.0	6506.6	6340.4	6122.8	5880.7	5646.0
12.5°	7347.8	7323.3	7193.7	7032.4	6819.6	6621.5	6570.2	6401.5	6157.0	5880.7	5604.4
15°	7338.0	7320.9	7191.3	7015.2	6800.1	6626.5	6580.0	6411.3	6149.6	5856.2	5550.6
17.5°	7142.4	7149.7	7039.7	6866.1	6690.1	6558.0	6516.4	6359.9	6100.7	5807.3	5487.0
20°	6800.1	6834.2	6761.0	6606.9	6509.1	6418.7	6391.6	6259.7	6024.9	5736.4	5418.5
22.5°	6457.8	6489.6	6460.2	6330.6	6315.9	6262.0	6247.5	6152.1	5958.9	5692.4	5376.9
25°	6205.9	6235.2	6230.3	6117.9	6161.9	6159.4	6147.2	6100.7	5944.2	5692.4	5384.3
27.5°	6137.4	6147.2	6137.4	6034.7	6095.8	6144.7	6135.0	6127.6	5988.3	5763.3	5477.1
30°	6372.1	6357.5	6281.7	6073.8	6130.1	6198.5	6188.8	6193.7	6120.2	5949.1	5685.1
32.5°	7308.7	7242.7	7003.0	6418.7	6269.4	6306.1	6311.1	6391.6	6403.9	6235.2	6007.8
35°	8709.7	8636.4	8325.9	7342.9	6702.3	6575.1	6575.1	6697.4	6770.7	6646.0	6509.1
37.5°	10194.0	10113.2	9947.0	8624.2	7611.9	7042.1	7030.0	7115.5	7220.6	7250.0	7284.2
40°	11881.2	11795.5	11842.1	10061.9	8880.9	7851.5	7677.8	7616.8	7900.4	8088.7	8362.4
42.5°	13727.3	13688.1	13705.3	11663.5	10326.0	9061.9	8814.9	8499.5	8841.8	9176.8	9751.4
45°	15436.4	15470.7	15453.5	13377.6	11934.9	10538.7	10277.2	9665.8	10000.8	10575.4	11511.9
47.5°	16932.9	16791.1	17011.1	15250.6	13737.0	12191.7	11869.0	11049.8	11389.6	12098.9	13683.3
50°	18749.7	18730.1	18407.4	17749.6	15915.7	13852.0	13428.9	12480.2	13008.4	13993.8	16419.4
52.5°	20659.4	20304.8	20008.9	19693.6	18226.4	15553.8	15035.5	13905.8	14910.7	16150.4	19754.6
55°	21050.6	20891.7	21258.5	21789.0	20454.0	17321.6	16717.8	15693.2	17052.7	18615.1	23600.9
57.5°	21886.9	21884.4	22642.5	23588.7	22747.6	19197.2	18588.3	17852.3	19461.3	21439.4	27684.3
60°	22451.6	22610.6	24019.0	25855.3	24999.6	21363.6	20803.6	20344.0	22199.9	24596.1	31489.1
62.5°	22747.6	22962.7	24884.7	26774.7	28183.2	24970.2	24410.2	23747.6	25823.7	28058.6	33714.2
65°	21517.6	21940.7	24750.2	27569.5	30970.7	30816.7	30564.8	29400.9	30354.5	30794.6	32909.8
67.5°	18113.9	18546.8	21818.4	26828.6	32961.2	36455.2	36509.1	34521.1	33142.0	31029.4	27669.7
70°	12905.7	13245.6	15952.4	22493.2	31445.1	40140.1	40323.5	36880.7	32587.0	27518.1	19331.7
72.5°	6127.6	6335.5	8898.1	14639.3	24953.0	36778.0	37132.6	33868.3	27708.8	20373.2	10546.0
75°	2252.1	2315.6	3007.6	6227.9	14473.0	27122.0	27540.1	24278.3	18368.2	10142.6	4017.5
77.5°	1349.8	1391.3	1687.2	2628.6	5692.4	15502.5	16121.1	13204.0	8027.5	3775.4	1975.7
80°	943.9	973.2	1210.4	1635.8	2689.8	5907.5	6457.8	5389.2	3198.3	2389.0	1437.8
82.5°	638.2	652.9	850.9	1105.2	1787.5	2110.3	2276.4	2396.3	2156.7	1777.6	912.1
85°	418.1	432.7	577.1	728.6	1137.1	1090.5	1115.0	1410.9	1574.7	1208.0	506.2
87.5°	239.6	249.4	347.2	388.8	557.6	462.1	467.1	743.3	1007.4	814.2	308.1
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°	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7
2.5°	5809.8	5777.9	5707.0	5663.0	5621.5	5611.7	5594.6	5592.1	5589.7	5589.7	5582.4
5°	5680.2	5626.5	5516.4	5455.2	5403.9	5398.9	5396.6	5408.8	5413.7	5418.5	5411.2
7.5°	5597.1	5523.7	5386.7	5298.7	5237.6	5222.9	5247.4	5303.6	5340.3	5354.9	5347.5
10°	5545.7	5455.2	5296.3	5201.0	5149.6	5142.2	5174.0	5240.1	5315.8	5345.2	5342.8
12.5°	5487.0	5384.3	5215.6	5115.3	5086.0	5100.7	5142.2	5203.4	5281.6	5328.0	5330.5
15°	5428.3	5308.5	5134.8	5046.9	5034.6	5054.3	5093.3	5139.8	5201.0	5247.4	5252.3
17.5°	5357.4	5232.7	5059.1	4968.6	4958.8	4968.6	4971.1	4995.6	5034.6	5078.7	5090.8
20°	5281.6	5154.5	4973.5	4883.1	4839.0	4799.9	4755.8	4760.8	4773.0	4817.0	4826.7
22.5°	5227.8	5100.7	4907.5	4782.9	4665.4	4548.0	4460.0	4447.8	4452.7	4489.4	4501.6
25°	5232.7	5098.2	4890.3	4675.2	4418.5	4230.2	4112.8	4093.3	4090.7	4117.7	4134.8
27.5°	5328.0	5193.5	4954.0	4565.2	4149.4	3870.7	3746.1	3731.3	3711.7	3719.0	3738.7
30°	5540.7	5416.1	5108.0	4452.7	3858.5	3518.5	3389.0	3374.4	3347.4	3335.2	3349.9
32.5°	5888.0	5785.3	5333.0	4345.1	3567.6	3217.9	3085.8	3054.1	3037.0	3022.2	3034.4
35°	6465.1	6421.0	5633.7	4227.7	3310.8	2985.6	2865.8	2816.8	2792.4	2819.3	2838.9
37.5°	7369.7	7394.2	6027.4	4044.3	3112.7	2831.6	2731.3	2675.0	2638.4	2660.4	2682.4
40°	8651.0	8668.2	6462.5	3785.2	2941.6	2741.1	2633.4	2582.2	2530.8	2491.6	2489.2
42.5°	10333.3	10159.7	6890.6	3504.0	2743.5	2684.8	2565.0	2501.4	2423.2	2315.6	2293.6
45°	12328.6	11719.8	7215.7	3181.2	2520.9	2616.3	2489.2	2401.2	2278.9	2161.5	2149.3
47.5°	14627.1	13394.7	7374.7	2846.2	2313.1	2516.1	2396.3	2256.9	2102.9	2044.1	2036.8
50°	17434.2	15382.6	7450.5	2520.9	2132.2	2384.0	2261.7	2098.0	1968.5	1956.2	1948.8
52.5°	20630.0	17774.1	7475.0	2254.4	1983.0	2212.9	2151.8	1992.8	1890.0	1899.9	1899.9
55°	23975.1	20243.7	7142.4	2061.2	1846.2	2036.8	2078.4	1951.3	1865.7	1904.8	1919.4
57.5°	27046.1	22432.1	6095.8	1912.1	1716.6	1902.3	2051.6	1990.3	1931.7	2090.6	2100.4
60°	29403.3	23725.6	4553.0	1777.6	1621.2	1855.9	2122.5	2139.6	2154.1	2533.1	2584.5
62.5°	29897.2	23295.2	3129.8	1672.5	1577.1	1895.0	2252.1	2254.4	2237.3	2501.4	2533.1
65°	27630.6	20573.7	2276.4	1613.9	1540.4	1965.9	2362.0	2310.8	2198.2	2398.7	2340.0
67.5°	21943.1	15500.1	1895.0	1569.8	1486.7	1960.9	2479.4	2362.0	2176.2	2349.8	2254.4
70°	14243.1	9372.4	1687.2	1533.1	1423.1	1868.2	2547.9	2357.2	2112.6	2186.0	2073.5
72.5°	6949.2	4191.0	1547.7	1479.4	1357.1	1738.6	2545.4	2313.1	2046.7	2041.7	1980.7
75°	2719.0	1919.4	1420.7	1398.6	1244.6	1591.8	2477.0	2249.5	1968.5	1890.0	1868.2
77.5°	1591.8	1369.3	1259.3	1278.9	1110.1	1445.1	2376.7	2139.6	1860.8	1767.9	1743.4
80°	1159.0	1024.6	1073.5	1105.2	948.7	1298.4	2242.2	2005.0	1740.9	1787.5	1753.2
82.5°	743.3	660.3	870.5	902.3	789.8	1149.2	2095.5	1863.2	1572.2	1428.0	1393.7
85°	379.0	418.1	648.0	687.1	608.9	943.9	1917.1	1675.0	1381.6	1188.4	1208.0
87.5°	212.7	286.0	413.2	462.1	430.4	726.2	1555.1	1381.6	1127.2	916.9	806.9
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)