

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: P193098

Luminaire Tested: **GLEON-AF-10-LED-E1-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36842.2 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 323
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



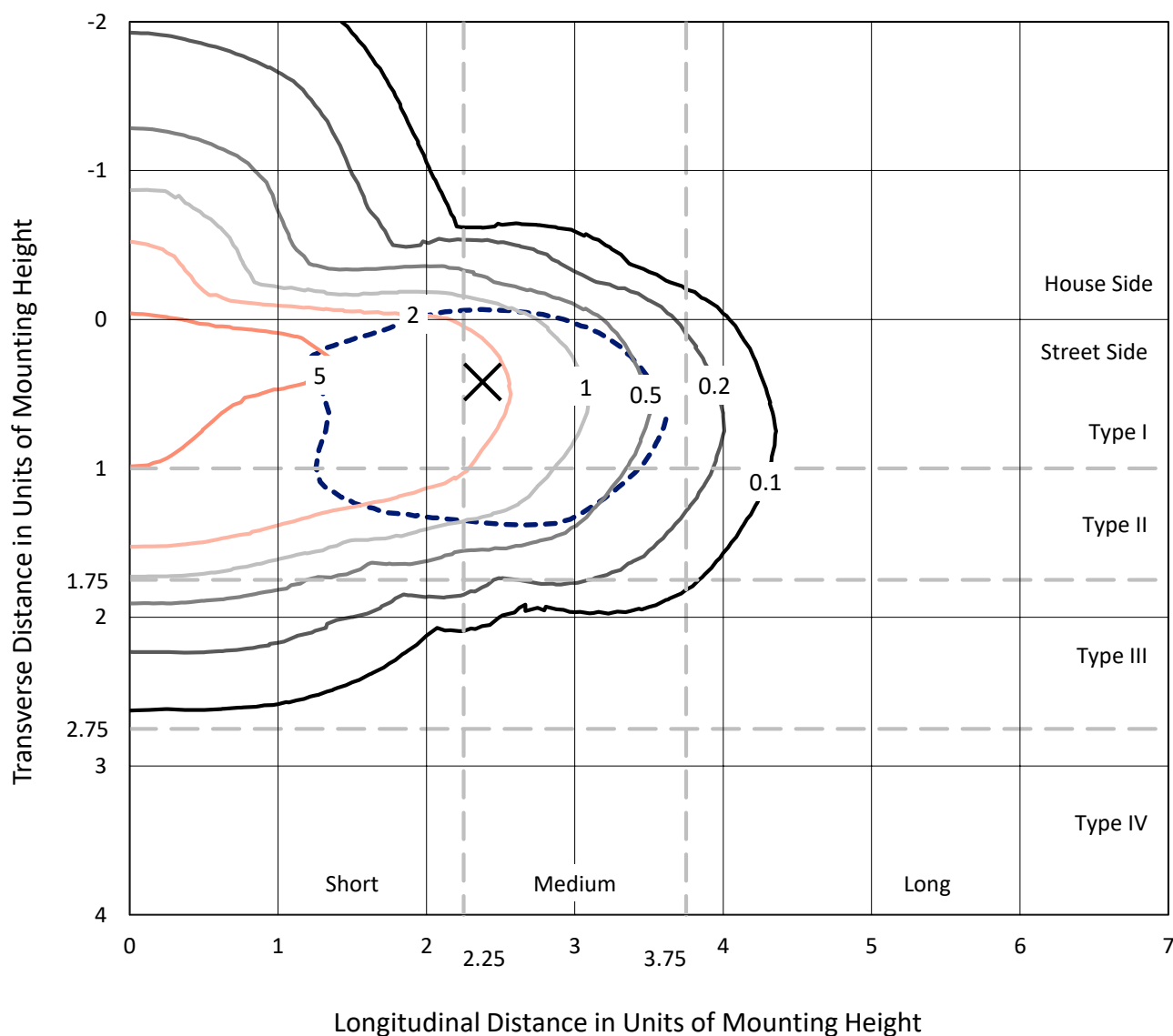
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

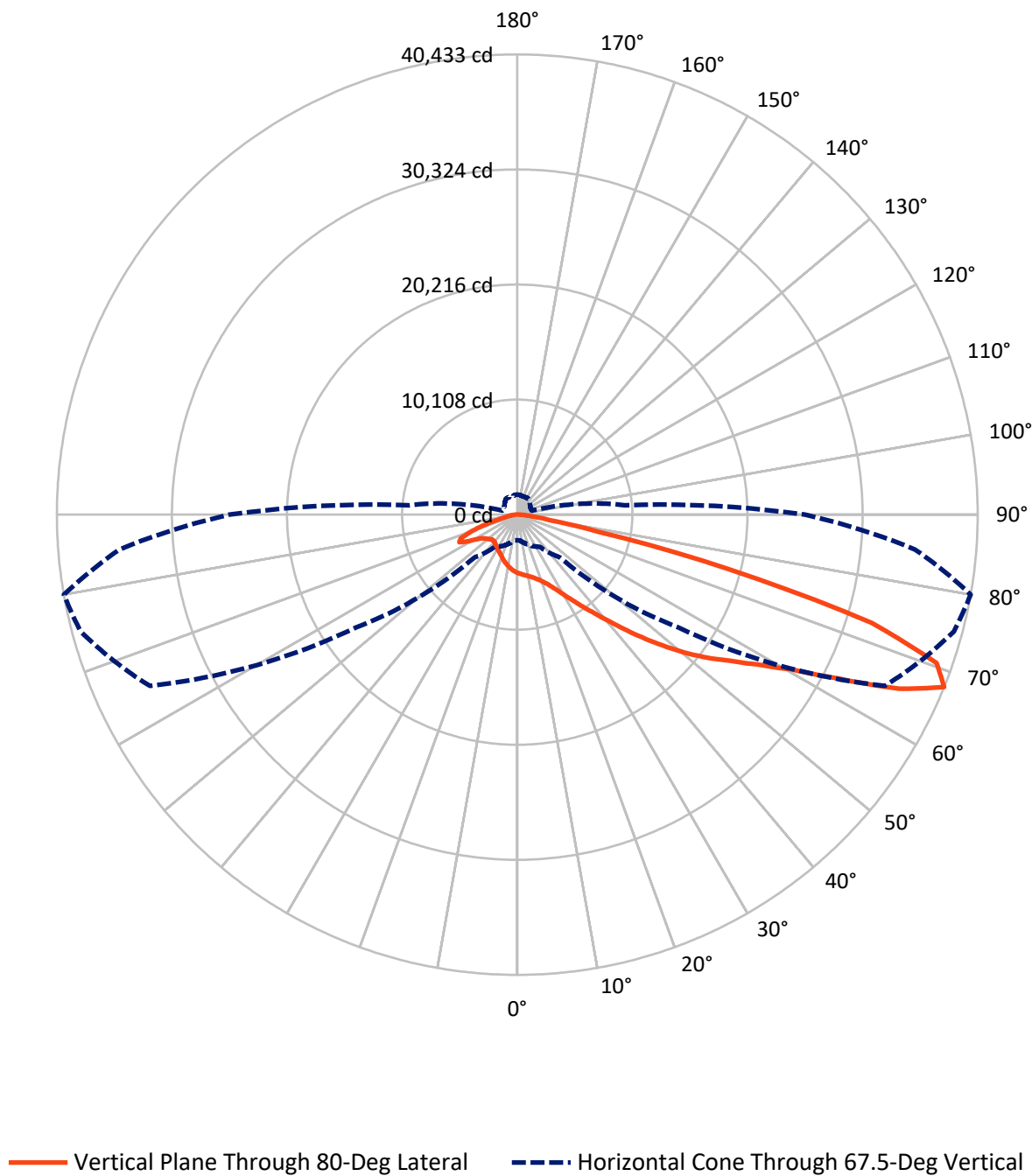


Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6784.9	0.0	6784.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	30057.3	0.0	30057.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	36842.2	0.0	36842.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.2	1.3
10°-20°	1360.1	3.7
20°-30°	2251.3	6.1
30°-40°	3682.6	10.0
40°-50°	5945.9	16.1
50°-60°	8584.2	23.3
60°-70°	9473.1	25.7
70°-80°	4366.5	11.9
80°-90°	706.3	1.9
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°	36842.2	100.0
0°-180°	36842.2	100.0

Coefficient of Utilization



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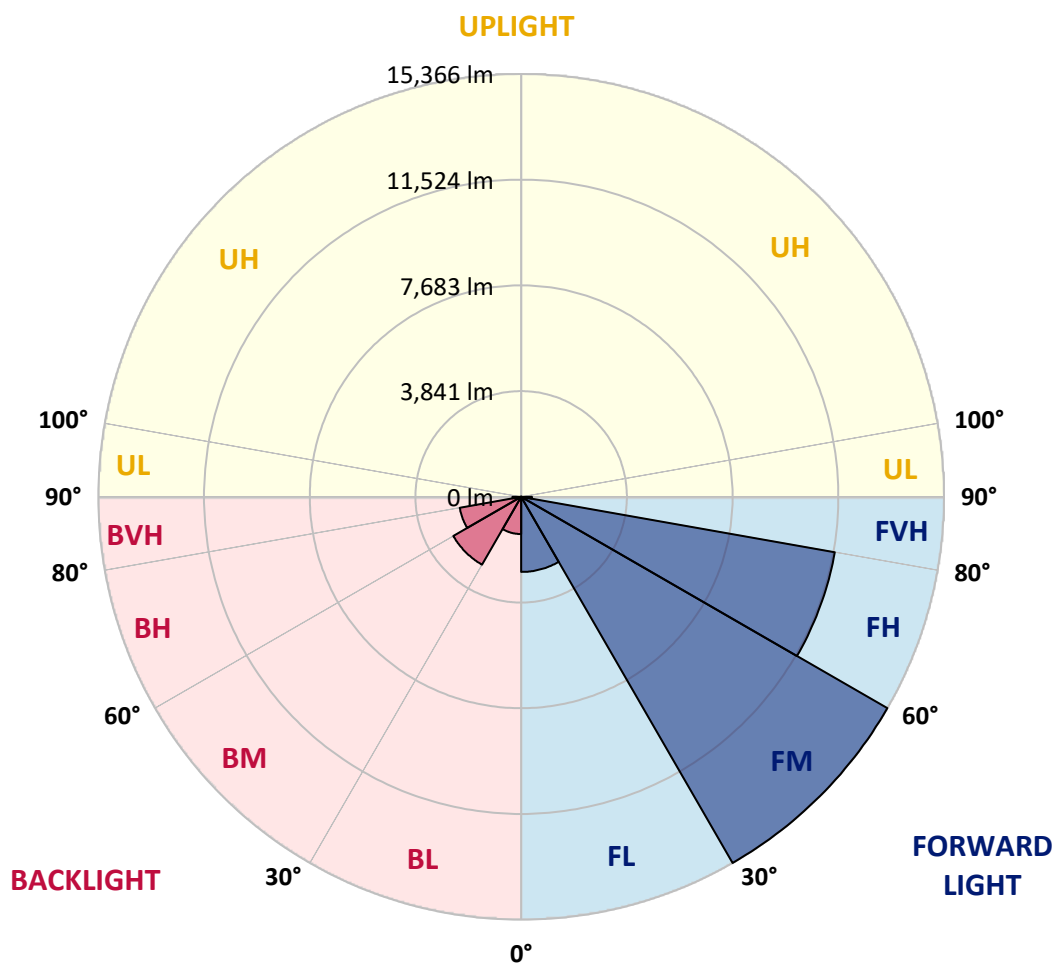
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2729.9	7.4			
FM	(30°-60°)	15365.9	41.7			
FH	(60°-80°)	11573.1	31.4			G4/12000
FVH	(80°-90°)	388.3	1.1			G3/500
BL	(0°-30°)	1353.7	3.7	B3/2500		
BM	(30°-60°)	2846.7	7.7	B3/5000		
BH	(60°-80°)	2266.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	318.0	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	5118.5	5118.5	5118.5	5118.5	5118.5	5118.5	5118.5	5118.5	5118.5	5118.5	5118.5
2.5°	5599.1	5566.4	5571.9	5562.8	5535.6	5488.4	5437.8	5345.2	5249.1	5198.2	5158.3
5°	6067.0	6058.0	6045.4	6016.3	5947.3	5849.4	5727.9	5564.7	5388.6	5296.3	5207.3
7.5°	6417.2	6411.7	6395.4	6377.3	6310.0	6192.2	6009.0	5776.9	5521.1	5394.1	5256.4
10°	6446.2	6455.2	6467.9	6516.9	6525.9	6462.4	6275.7	5994.5	5659.0	5495.7	5319.9
12.5°	6199.5	6219.4	6268.4	6393.6	6525.9	6603.9	6507.8	6223.1	5820.3	5622.7	5399.6
15°	5873.0	5883.8	5943.7	6116.0	6353.7	6594.9	6685.6	6475.1	6028.9	5786.0	5519.3
17.5°	5733.3	5738.8	5780.5	5894.7	6116.0	6460.6	6785.3	6749.1	6284.7	5989.0	5666.1
20°	5662.6	5675.3	5735.1	5847.5	5987.3	6288.3	6799.9	7044.7	6589.4	6243.0	5851.3
22.5°	5864.0	5858.5	5880.3	5936.5	6054.4	6235.8	6789.0	7349.5	6977.7	6569.4	6092.4
25°	6333.6	6353.7	6315.5	6252.1	6290.2	6417.2	6846.9	7679.5	7463.6	6988.4	6408.0
27.5°	7003.0	6983.0	6926.8	6778.0	6700.1	6754.5	7039.2	8035.0	8067.6	7539.9	6825.2
30°	7670.4	7654.1	7599.7	7418.2	7258.7	7213.4	7412.9	8443.1	8787.7	8201.9	7336.6
32.5°	8363.2	8345.1	8294.4	8112.9	7920.7	7815.6	7944.4	8914.7	9636.5	8992.7	7938.9
35°	9217.5	9183.1	9076.0	8824.0	8635.3	8553.7	8613.6	9507.7	10615.9	9928.6	8669.8
37.5°	10021.0	10073.7	9964.9	9616.6	9371.7	9342.8	9409.9	10231.5	11671.6	10975.1	9509.6
40°	10828.2	10837.3	10739.3	10454.6	10202.4	10155.3	10324.0	11109.4	12917.6	12226.6	10530.7
42.5°	11662.6	11680.7	11515.6	11252.6	11067.6	11076.7	11269.0	12137.7	14347.0	13701.2	11706.0
45°	12651.0	12678.2	12496.8	12152.3	11983.5	12322.7	12242.9	13291.3	15914.0	15377.1	13055.5
47.5°	13684.9	13726.6	13588.8	13265.9	13055.5	13521.6	13217.0	14570.0	17600.8	17174.6	14537.4
50°	14248.9	14308.8	14443.1	14419.5	14374.1	14296.1	14303.3	15941.3	19340.2	19046.4	16060.9
52.5°	13946.1	13944.2	14434.0	15028.9	15663.7	15710.8	15627.5	17386.8	20965.3	20876.5	17495.5
55°	12560.3	12654.6	13396.5	14548.2	16282.3	17365.0	17611.7	19042.8	22561.5	22664.8	18952.1
57.5°	10253.2	10331.2	11332.5	12937.6	15447.8	18348.1	20433.8	21449.7	24346.2	24828.7	20891.0
60°	6954.1	7048.4	8109.3	10037.4	13202.5	17800.3	23120.2	25744.6	26482.8	27580.2	23611.7
62.5°	4086.4	4171.6	5036.9	6331.9	9295.6	15255.7	24299.0	31855.2	29876.4	31731.8	27761.5
65°	2813.2	2871.3	3292.0	3941.3	5341.5	10275.0	22837.2	36074.0	35098.2	36875.8	32573.5
67.5°	2263.7	2256.3	2590.1	3032.6	3438.9	5298.0	17268.9	35597.0	39690.7	40432.6	35071.0
70°	1864.5	1857.3	2084.0	2450.3	2747.9	2983.7	9406.2	30039.6	38754.8	39056.0	32771.2
72.5°	1559.9	1567.1	1712.2	1984.2	2254.6	2247.3	4133.6	21132.3	30487.6	32569.8	26123.7
75°	1316.8	1320.4	1416.5	1608.9	1830.1	1810.1	2241.8	11448.5	17722.3	19171.5	14481.1
77.5°	1120.9	1124.5	1186.2	1293.2	1451.0	1443.8	1636.0	4946.1	7392.9	7302.3	4953.4
80°	999.4	999.4	1028.4	1048.4	1135.4	1102.8	1213.5	2376.1	3125.2	2885.7	1977.0
82.5°	783.5	787.2	965.0	957.6	894.2	852.4	852.4	1400.2	1656.0	1530.8	1157.2
85°	440.8	438.9	622.1	750.9	787.2	600.4	594.9	783.5	901.4	794.5	560.5
87.5°	188.6	192.3	288.3	333.8	446.3	373.6	368.2	404.5	458.9	397.2	259.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5118.5	5118.5	5118.5	5118.5	5118.5	5118.5	5118.5	5118.5	5118.5	5118.5	5118.5
2.5°	5120.2	5073.1	4969.7	4840.9	4724.9	4648.7	4579.8	4479.9	4485.4	4416.5	4365.8
5°	5116.6	5018.8	4779.3	4494.5	4220.6	4022.9	3874.3	3740.0	3707.3	3643.9	3605.8
7.5°	5120.2	4960.7	4558.0	4102.8	3763.6	3513.2	3386.3	3315.6	3299.2	3277.4	3279.3
10°	5133.0	4908.0	4314.9	3736.3	3380.9	3215.8	3185.0	3206.8	3232.1	3239.4	3241.1
12.5°	5162.0	4861.0	4048.4	3409.9	3141.4	3090.6	3143.3	3217.5	3266.7	3290.2	3288.3
15°	5227.3	4824.7	3792.6	3154.1	3009.0	3036.2	3134.2	3239.4	3310.1	3342.8	3344.7
17.5°	5298.0	4772.0	3529.6	2958.3	2911.1	2980.0	3101.6	3224.9	3311.9	3348.2	3355.5
20°	5390.6	4706.8	3253.8	2811.3	2818.6	2896.6	3010.8	3134.2	3230.4	3261.2	3275.7
22.5°	5512.0	4636.0	3012.8	2691.6	2713.4	2773.2	2862.1	2969.1	3052.6	3067.1	3079.8
25°	5675.3	4559.8	2820.4	2582.8	2591.8	2626.4	2686.1	2749.7	2807.8	2791.3	2804.1
27.5°	5894.7	4494.5	2677.1	2483.0	2466.7	2473.9	2504.8	2524.8	2555.6	2510.2	2515.7
30°	6152.3	4423.8	2566.5	2395.9	2350.6	2337.9	2345.2	2356.0	2379.6	2318.1	2308.9
32.5°	6451.5	4338.5	2463.1	2319.8	2256.3	2231.0	2234.6	2263.7	2354.3	2316.2	2296.2
35°	6799.9	4242.4	2354.3	2236.4	2192.9	2156.6	2153.0	2243.6	2513.8	2490.3	2472.2
37.5°	7208.0	4146.3	2245.5	2142.0	2145.8	2105.8	2093.1	2196.4	2544.7	2452.3	2439.5
40°	7726.7	4095.5	2153.0	2042.3	2087.6	2082.2	2056.8	2109.4	2341.5	2172.9	2151.1
42.5°	8368.7	4102.8	2084.0	1935.3	2018.7	2076.8	2036.8	2038.7	2122.2	1995.2	1975.2
45°	9161.4	4188.0	2035.1	1850.1	1940.8	2071.3	2029.6	2000.5	2007.8	1940.8	1929.8
47.5°	10086.4	4364.0	2000.5	1779.3	1866.3	2051.4	2027.8	1989.7	1973.3	1937.0	1928.0
50°	11114.7	4619.7	1975.2	1712.2	1799.3	2018.7	2029.6	1978.8	1960.6	1946.1	1940.8
52.5°	12125.0	4911.6	1937.0	1654.1	1746.6	1978.8	2035.1	1968.0	1948.0	1937.0	1931.7
55°	13251.4	5276.2	1879.0	1605.2	1703.2	1928.0	2035.1	1951.6	1929.8	1931.7	1929.8
57.5°	14773.2	5865.7	1810.1	1563.5	1650.6	1866.3	2000.5	1933.5	1906.2	1908.1	1909.9
60°	17151.0	6904.9	1726.8	1521.8	1585.3	1793.8	1953.4	1893.6	1866.3	1873.6	1875.4
62.5°	20648.0	8430.5	1617.9	1460.0	1516.3	1715.8	1888.1	1842.7	1815.6	1833.7	1833.7
65°	24282.8	9776.2	1483.6	1382.1	1443.8	1630.5	1806.5	1779.3	1752.1	1793.8	1792.0
67.5°	25260.4	9475.2	1349.5	1296.8	1371.2	1536.3	1708.6	1694.1	1679.6	1752.1	1748.4
70°	22440.0	7606.9	1226.1	1209.8	1291.5	1434.7	1603.4	1603.4	1594.3	1648.7	1636.0
72.5°	17096.6	5394.1	1108.2	1117.2	1200.8	1324.0	1489.1	1501.8	1487.2	1514.5	1503.6
75°	9152.3	3087.0	990.3	1015.7	1088.2	1211.5	1362.1	1374.8	1365.7	1364.0	1369.3
77.5°	3041.7	1509.1	867.0	906.9	970.3	1095.6	1229.7	1249.7	1228.0	1224.2	1222.5
80°	1355.0	948.6	731.0	783.5	839.7	963.1	1090.1	1106.4	1082.9	1115.4	1073.8
82.5°	870.6	624.0	585.8	643.9	698.2	830.7	950.4	954.1	932.3	1082.9	923.2
85°	422.7	386.3	440.8	493.3	540.5	653.0	787.2	789.0	734.6	669.3	645.7
87.5°	210.5	224.8	293.8	341.0	364.6	448.0	573.2	562.2	538.6	489.7	451.7
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)