

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: P193124

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193124
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-06-LED-E1-T2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37066.2 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 382
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



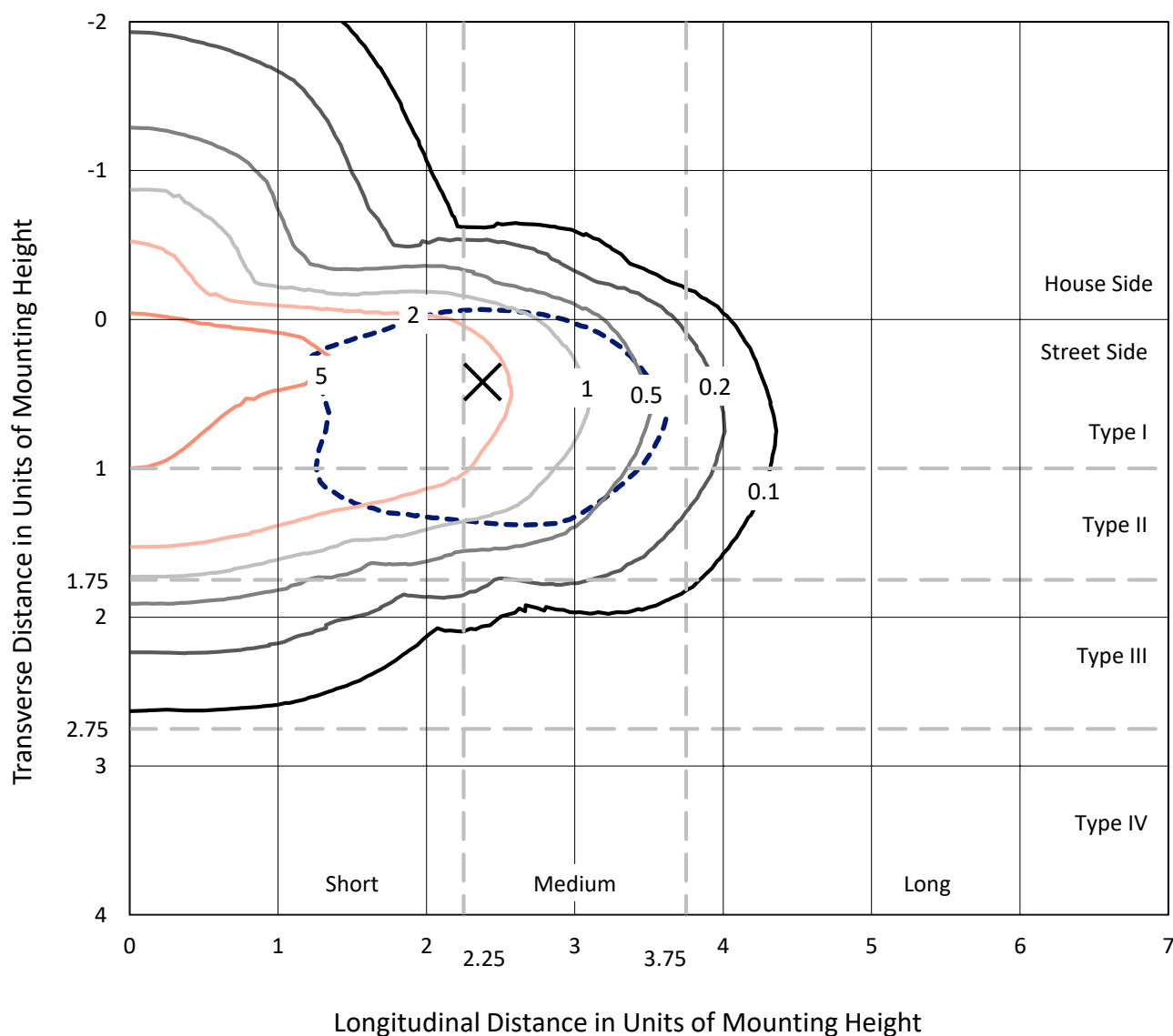
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

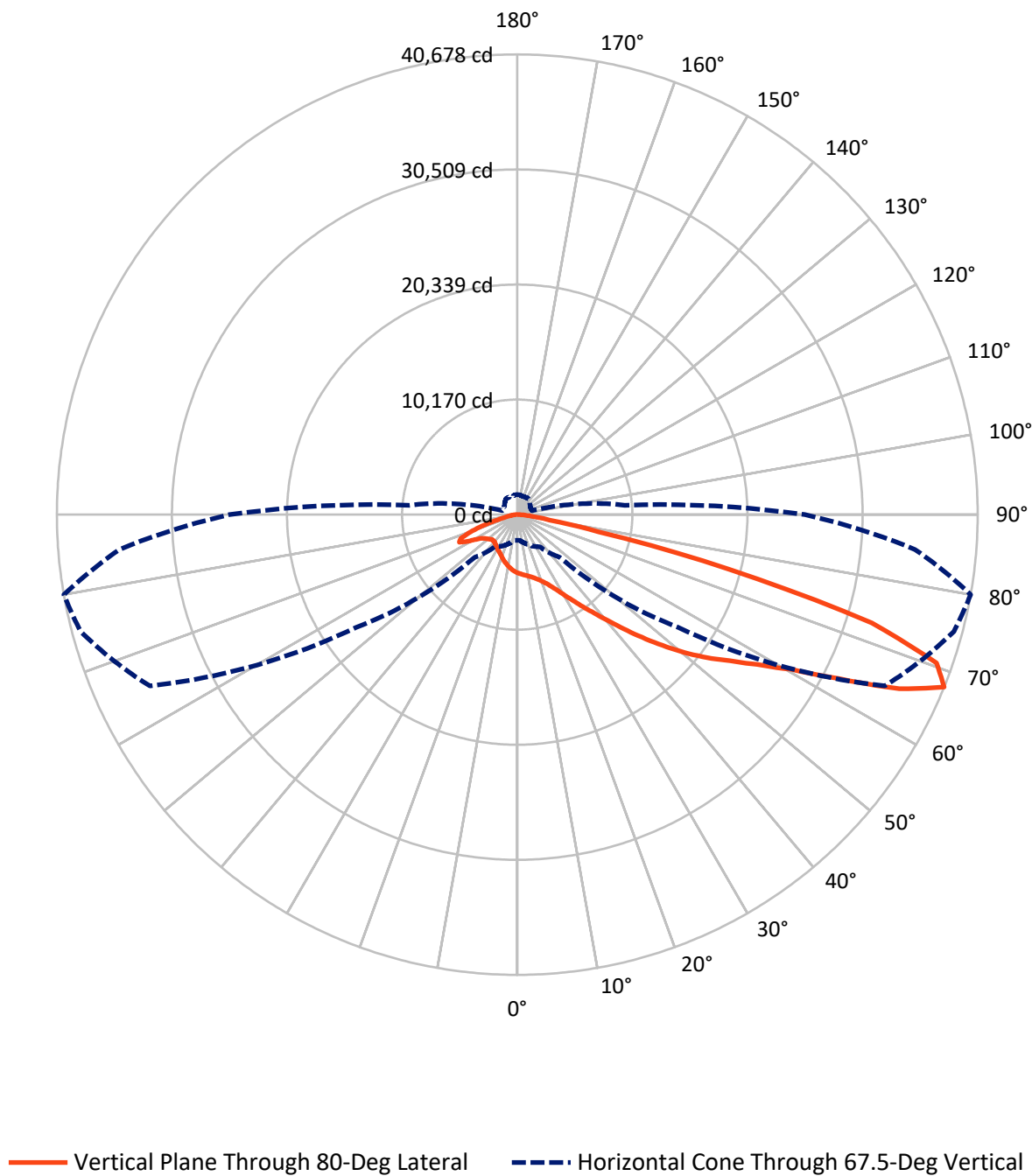


Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6826.2	0.0	6826.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	30240.0	0.0	30240.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	37066.2	0.0	37066.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.0	1.3
10°-20°	1368.4	3.7
20°-30°	2265.0	6.1
30°-40°	3705.0	10.0
40°-50°	5982.1	16.1
50°-60°	8636.3	23.3
60°-70°	9530.7	25.7
70°-80°	4393.1	11.9
80°-90°	710.5	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°	37066.2	100.0
0°-180°	37066.2	100.0

Coefficient of Utilization



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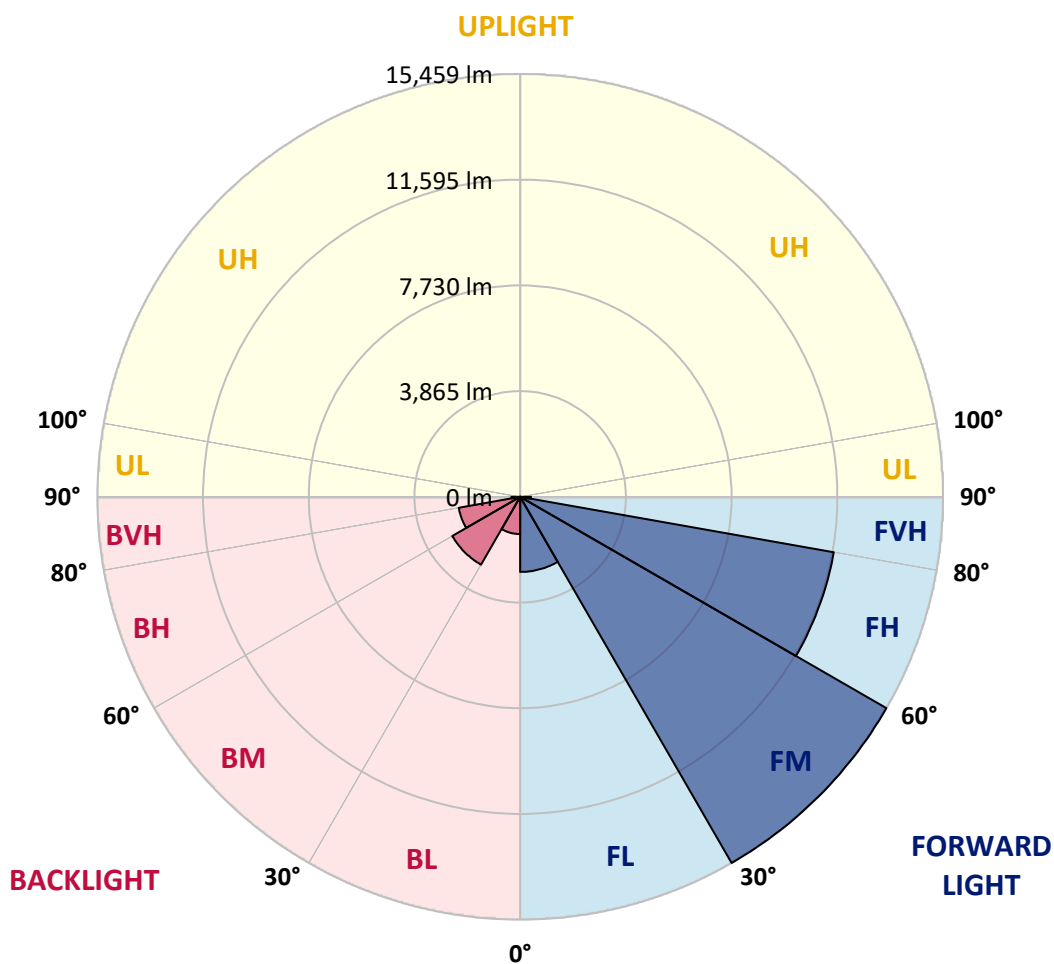
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2746.5	7.4			
FM	(30°-60°)	15459.4	41.7			
FH	(60°-80°)	11643.4	31.4			G4/12000
FVH	(80°-90°)	390.6	1.1			G3/500
BL	(0°-30°)	1361.9	3.7	B3/2500		
BM	(30°-60°)	2864.0	7.7	B3/5000		
BH	(60°-80°)	2280.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	319.9	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°	5149.6	5149.6	5149.6	5149.6	5149.6	5149.6	5149.6	5149.6	5149.6	5149.6	5149.6
2.5°	5633.2	5600.3	5605.8	5596.7	5569.3	5521.9	5470.7	5377.6	5280.9	5229.9	5189.7
5°	6104.0	6094.8	6082.0	6052.9	5983.5	5884.9	5762.7	5598.5	5421.5	5328.3	5239.0
7.5°	6456.1	6450.6	6434.3	6416.0	6348.5	6229.9	6045.6	5811.9	5554.6	5426.9	5288.2
10°	6485.3	6494.5	6507.3	6556.5	6565.6	6501.8	6313.8	6031.0	5693.4	5529.2	5352.2
12.5°	6237.2	6257.3	6306.5	6432.4	6565.6	6644.0	6547.4	6260.9	5855.8	5656.9	5432.4
15°	5908.7	5919.6	5979.9	6153.3	6392.2	6635.0	6726.2	6514.5	6065.6	5821.2	5552.9
17.5°	5768.3	5773.7	5815.7	5930.6	6153.3	6500.0	6826.5	6790.0	6323.0	6025.4	5700.7
20°	5697.0	5709.8	5770.0	5883.2	6023.7	6326.5	6841.2	7087.5	6629.6	6281.0	5886.8
22.5°	5899.6	5894.1	5916.0	5972.5	6091.2	6273.6	6830.3	7394.1	7020.0	6609.4	6129.5
25°	6372.2	6392.2	6354.0	6290.0	6328.4	6456.1	6888.6	7726.2	7509.1	7031.0	6447.0
27.5°	7045.6	7025.5	6968.9	6819.3	6740.7	6795.5	7082.0	8083.9	8116.7	7585.7	6866.7
30°	7717.1	7700.6	7645.9	7463.4	7302.8	7257.2	7457.9	8494.5	8841.1	8251.7	7381.3
32.5°	8414.2	8395.9	8344.7	8162.3	7969.0	7863.1	7992.7	8968.9	9695.1	9047.3	7987.2
35°	9273.6	9239.0	9131.3	8877.7	8687.9	8605.7	8666.0	9565.5	10680.5	9988.9	8722.5
37.5°	10082.0	10134.9	10025.4	9675.0	9428.7	9399.6	9467.0	10293.7	11742.5	11041.8	9567.4
40°	10894.0	10903.2	10804.6	10518.2	10264.5	10217.1	10386.7	11176.9	12996.2	12301.0	10594.8
42.5°	11733.5	11751.7	11585.7	11321.0	11134.9	11144.0	11337.5	12211.6	14434.1	13784.4	11777.3
45°	12727.9	12755.4	12572.8	12226.1	12056.4	12397.6	12317.4	13372.1	16010.8	15470.6	13134.9
47.5°	13768.1	13810.1	13671.4	13346.6	13134.9	13603.9	13297.3	14658.6	17707.8	17279.1	14625.8
50°	14335.6	14395.8	14530.8	14507.1	14461.5	14383.0	14390.3	16038.1	19457.8	19162.2	16158.6
52.5°	14030.8	14029.0	14521.7	15120.3	15758.9	15806.4	15722.4	17492.5	21092.8	21003.5	17602.0
55°	12636.7	12731.7	13477.9	14636.7	16381.2	17470.5	17718.8	19158.5	22698.6	22802.6	19067.3
57.5°	10315.6	10394.1	11401.3	13016.3	15541.8	18459.7	20558.1	21580.1	24494.3	24979.6	21017.9
60°	6996.3	7091.2	8158.6	10098.4	13282.6	17908.5	23260.6	25901.1	26643.9	27747.8	23755.1
62.5°	4111.3	4196.9	5067.5	6370.4	9352.0	15348.3	24446.8	32048.9	30058.0	31924.8	27930.3
65°	2830.3	2888.7	3311.9	3965.2	5374.0	10337.4	22976.0	36293.4	35311.6	37100.0	32771.5
67.5°	2277.3	2270.1	2605.9	3051.1	3459.8	5330.2	17373.9	35813.4	39932.0	40678.4	35284.3
70°	1875.9	1868.6	2096.6	2465.3	2764.6	3001.8	9463.4	30222.3	38990.4	39293.4	32970.4
72.5°	1569.3	1576.6	1722.6	1996.2	2268.2	2260.9	4158.7	21260.6	30673.0	32767.8	26282.6
75°	1324.8	1328.5	1425.2	1618.5	1841.2	1821.2	2255.4	11518.1	17830.1	19288.1	14569.1
77.5°	1127.8	1131.4	1193.4	1301.1	1459.8	1452.5	1646.0	4976.2	7437.9	7346.6	4983.6
80°	1005.5	1005.5	1034.6	1054.7	1142.3	1109.5	1220.8	2390.5	3144.2	2903.2	1989.1
82.5°	788.3	791.9	970.8	963.4	899.6	857.6	857.6	1408.8	1665.9	1540.1	1164.2
85°	443.4	441.6	625.9	755.4	791.9	603.9	598.5	788.3	907.0	799.2	563.9
87.5°	189.8	193.4	290.2	335.8	448.9	376.0	370.4	406.9	461.6	399.7	260.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5149.6	5149.6	5149.6	5149.6	5149.6	5149.6	5149.6	5149.6	5149.6	5149.6	5149.6
2.5°	5151.3	5103.9	4999.9	4870.3	4753.6	4677.0	4607.6	4507.3	4512.7	4443.3	4392.3
5°	5147.8	5049.2	4808.4	4521.8	4246.3	4047.4	3897.8	3762.8	3729.9	3665.9	3627.7
7.5°	5151.3	4990.9	4585.7	4127.7	3786.5	3534.6	3406.9	3335.6	3319.3	3297.5	3299.2
10°	5164.1	4937.9	4341.2	3759.1	3401.5	3235.3	3204.3	3226.2	3251.8	3259.1	3261.0
12.5°	5193.4	4890.5	4072.9	3430.6	3160.6	3109.4	3162.4	3237.2	3286.4	3310.2	3308.4
15°	5259.0	4854.0	3815.7	3173.3	3027.3	3054.7	3153.2	3259.1	3330.2	3363.1	3364.9
17.5°	5330.2	4801.1	3551.0	2976.2	2928.8	2998.2	3120.5	3244.5	3332.1	3368.6	3375.9
20°	5423.3	4735.3	3273.7	2828.4	2835.8	2914.2	3029.2	3153.2	3249.9	3280.9	3295.6
22.5°	5545.6	4664.2	3031.0	2708.0	2729.9	2790.2	2879.5	2987.1	3071.2	3085.7	3098.5
25°	5709.8	4587.6	2837.6	2598.5	2607.6	2642.3	2702.5	2766.5	2824.8	2808.4	2821.2
27.5°	5930.6	4521.8	2693.3	2498.1	2481.8	2489.0	2520.1	2540.2	2571.1	2525.5	2531.0
30°	6189.7	4450.6	2582.2	2410.6	2364.9	2352.2	2359.5	2370.4	2394.1	2332.1	2323.0
32.5°	6490.8	4364.9	2478.1	2333.9	2270.1	2244.5	2248.1	2277.3	2368.6	2330.3	2310.2
35°	6841.2	4268.2	2368.6	2249.9	2206.2	2169.7	2166.1	2257.3	2529.2	2505.5	2487.2
37.5°	7251.7	4171.5	2259.1	2155.0	2158.8	2118.5	2105.9	2209.9	2560.2	2467.1	2454.4
40°	7773.6	4120.3	2166.1	2054.7	2100.3	2094.8	2069.4	2122.3	2355.8	2186.1	2164.2
42.5°	8419.6	4127.7	2096.6	1947.1	2031.0	2089.4	2049.2	2051.2	2135.0	2007.3	1987.2
45°	9217.0	4213.5	2047.4	1861.3	1952.6	2083.9	2041.9	2012.8	2020.1	1952.6	1941.5
47.5°	10147.7	4390.5	2012.8	1790.1	1877.7	2063.8	2040.1	2001.8	1985.4	1948.8	1939.8
50°	11182.3	4647.8	1987.2	1722.6	1810.2	2031.0	2041.9	1990.8	1972.5	1958.0	1952.6
52.5°	12198.8	4941.6	1948.8	1664.2	1757.3	1990.8	2047.4	1979.9	1959.8	1948.8	1943.4
55°	13332.0	5308.4	1890.5	1615.0	1713.5	1939.8	2047.4	1963.5	1941.5	1943.4	1941.5
57.5°	14863.0	5901.4	1821.2	1573.0	1660.5	1877.7	2012.8	1945.3	1917.8	1919.6	1921.6
60°	17255.4	6947.0	1737.2	1531.0	1594.8	1804.8	1965.3	1905.1	1877.7	1885.0	1886.8
62.5°	20773.5	8481.7	1627.8	1469.0	1525.5	1726.3	1899.6	1854.0	1826.6	1844.9	1844.9
65°	24430.4	9835.6	1492.7	1390.6	1452.5	1640.5	1817.5	1790.1	1762.8	1804.8	1802.9
67.5°	25413.9	9532.8	1357.6	1304.8	1379.5	1545.6	1718.9	1704.3	1689.8	1762.8	1759.1
70°	22576.4	7653.2	1233.5	1217.1	1299.2	1443.5	1613.1	1613.1	1604.0	1658.8	1646.0
72.5°	17200.5	5426.9	1115.0	1124.1	1208.0	1332.1	1498.2	1510.9	1496.3	1523.7	1512.8
75°	9208.0	3105.8	996.3	1021.9	1094.9	1219.0	1370.4	1383.2	1374.1	1372.3	1377.8
77.5°	3060.2	1518.2	872.2	912.5	976.2	1102.2	1237.3	1257.2	1235.4	1231.8	1229.9
80°	1363.1	954.4	735.5	788.3	844.9	969.0	1096.8	1113.2	1089.5	1122.2	1080.2
82.5°	875.9	627.7	589.5	647.8	702.5	835.8	956.2	959.9	938.0	1089.5	928.8
85°	425.1	388.6	443.4	496.4	543.8	656.9	791.9	793.8	739.0	673.4	649.6
87.5°	211.6	226.2	295.6	343.1	366.8	450.7	576.7	565.6	541.9	492.6	454.4
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)