

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: P193123

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193123
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-05-LED-E1-T2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 30973.9 lumens
Efficiency: N/A
Efficacy: 96.8 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): 320
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

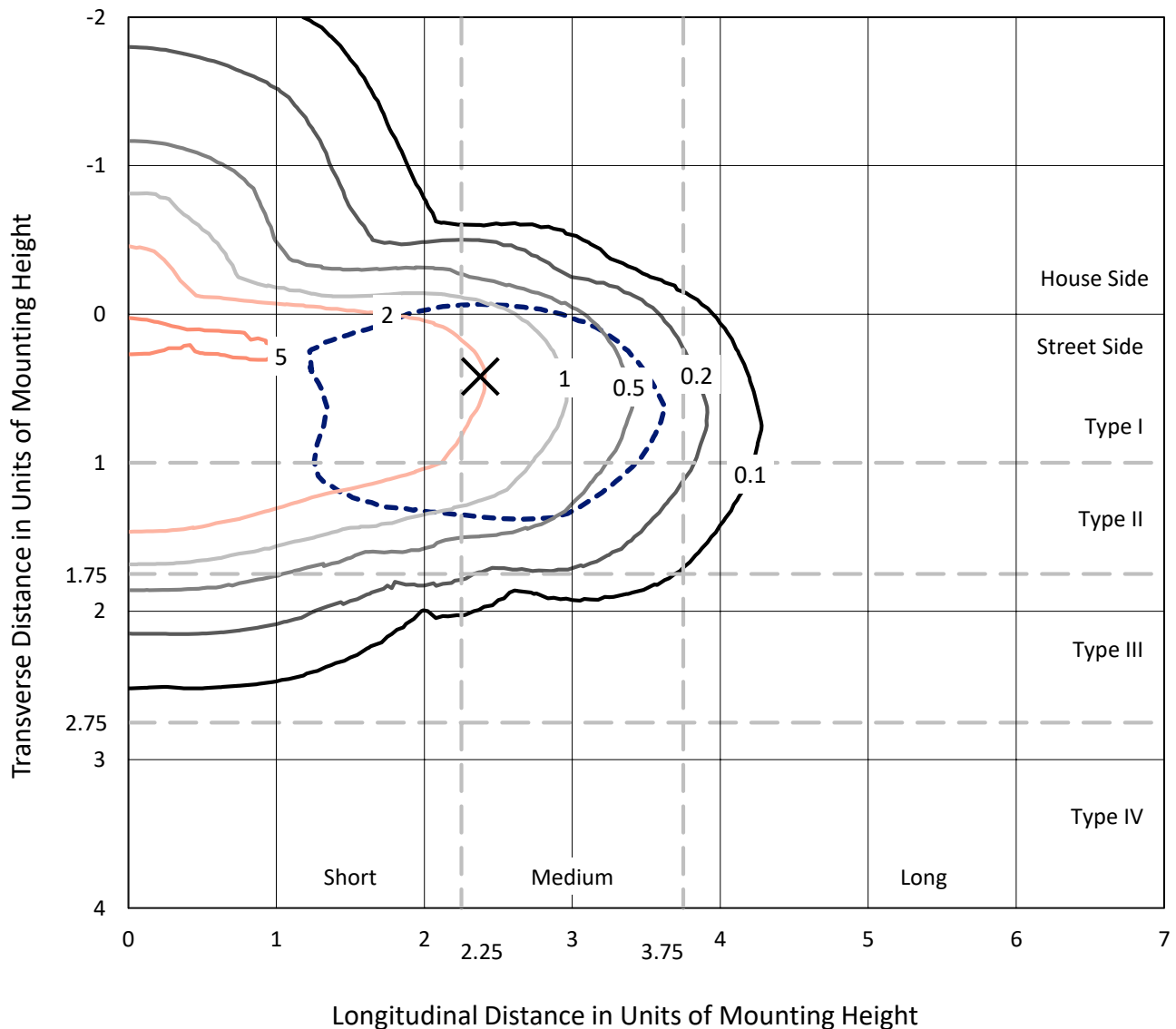


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

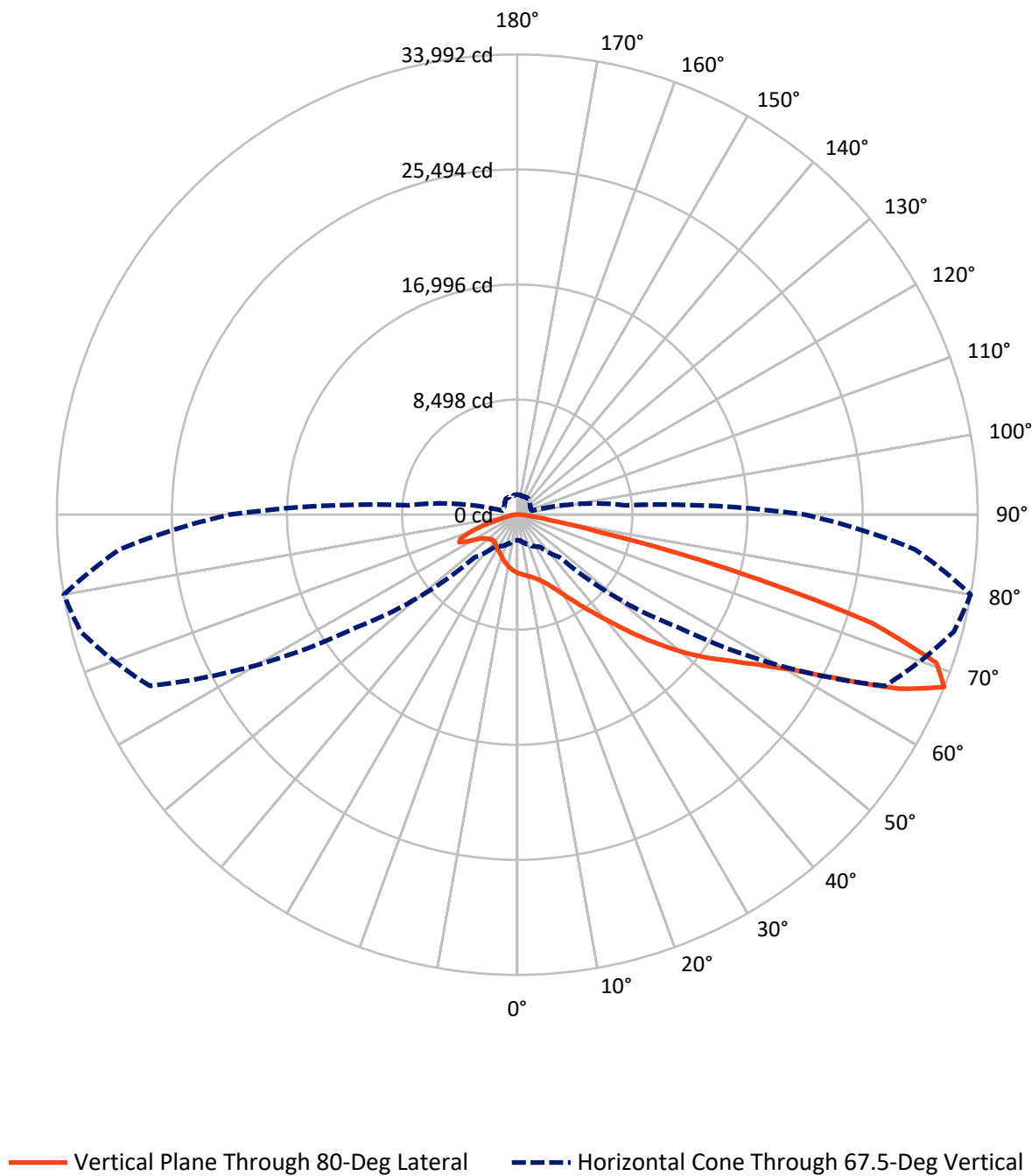


Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5704.2	0.0	5704.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	25269.7	0.0	25269.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	30973.9	0.0	30973.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.9	1.3
10°-20°	1143.5	3.7
20°-30°	1892.7	6.1
30°-40°	3096.0	10.0
40°-50°	4998.8	16.1
50°-60°	7216.9	23.3
60°-70°	7964.2	25.7
70°-80°	3671.0	11.9
80°-90°	593.8	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°	30973.9	100.0
0°-180°	30973.9	100.0

Coefficient of Utilization



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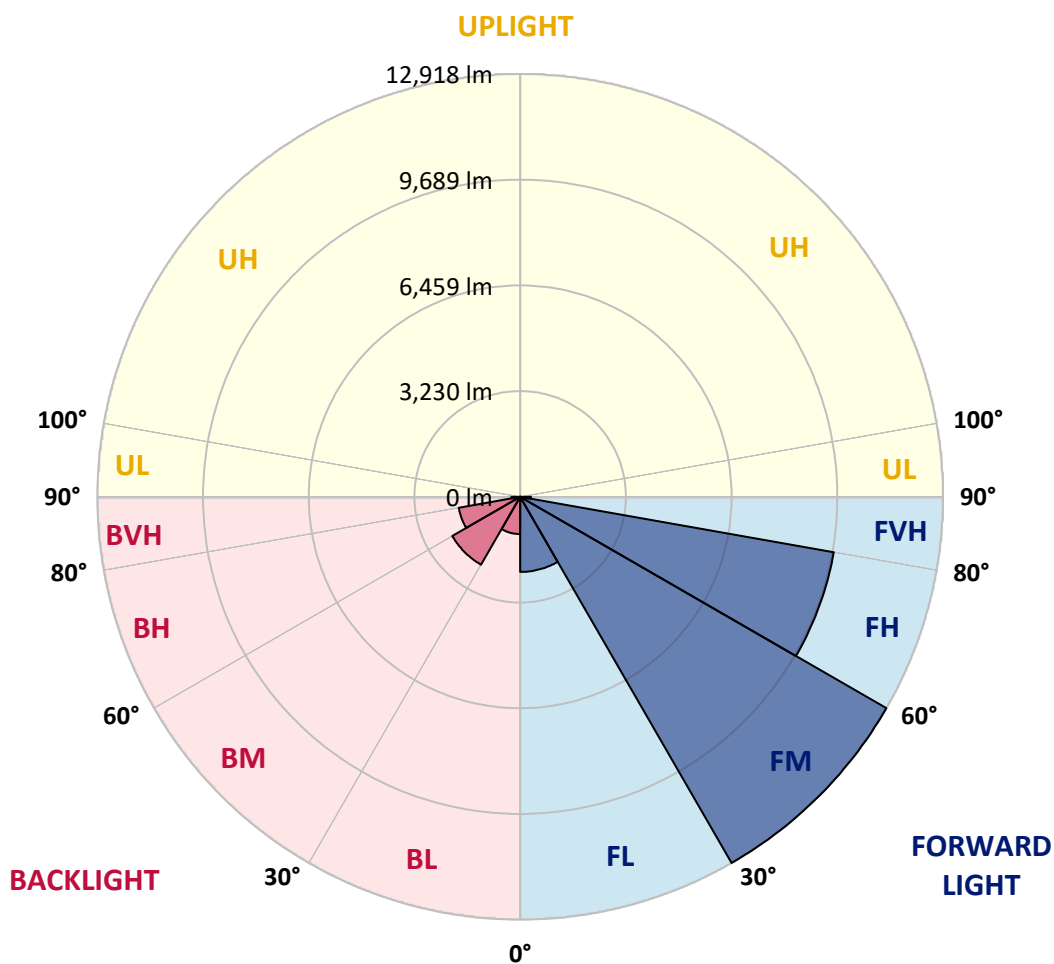
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2295.1	7.4			
FM	(30°-60°)	12918.4	41.7			
FH	(60°-80°)	9729.7	31.4			G4/12000
FVH	(80°-90°)	326.5	1.1			G3/500
BL	(0°-30°)	1138.1	3.7	B3/2500		
BM	(30°-60°)	2393.3	7.7	B2/2500		
BH	(60°-80°)	1905.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	267.3	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°	4303.1	4303.1	4303.1	4303.1	4303.1	4303.1	4303.1	4303.1	4303.1	4303.1	4303.1
2.5°	4707.2	4679.8	4684.4	4676.8	4653.9	4614.2	4571.5	4493.9	4413.0	4370.3	4336.7
5°	5100.7	5093.0	5082.4	5057.9	5000.0	4917.6	4815.5	4678.3	4530.4	4452.7	4377.9
7.5°	5395.0	5390.5	5376.6	5361.5	5305.0	5205.8	5051.9	4856.7	4641.7	4535.0	4419.1
10°	5419.4	5427.0	5437.8	5478.8	5486.5	5433.1	5276.0	5039.7	4757.5	4620.3	4472.4
12.5°	5212.0	5228.8	5269.9	5375.1	5486.5	5552.0	5471.2	5231.8	4893.2	4727.1	4539.5
15°	4937.5	4946.7	4997.0	5141.8	5341.5	5544.5	5620.7	5443.8	5068.6	4864.3	4640.1
17.5°	4820.1	4824.7	4859.8	4955.8	5141.8	5431.6	5704.5	5674.1	5283.7	5035.1	4763.7
20°	4760.7	4771.4	4821.6	4916.1	5033.6	5286.7	5716.8	5922.6	5539.9	5248.6	4919.2
22.5°	4929.9	4925.3	4943.7	4990.9	5090.1	5242.5	5707.6	6178.7	5866.1	5523.0	5122.1
25°	5324.9	5341.5	5309.6	5256.3	5288.2	5395.0	5756.4	6456.2	6274.9	5875.3	5387.3
27.5°	5887.6	5870.7	5823.5	5698.4	5632.9	5678.6	5918.0	6755.2	6782.6	6338.9	5738.1
30°	6448.7	6435.0	6389.2	6236.7	6102.5	6064.4	6232.1	7098.2	7388.0	6895.5	6168.1
32.5°	7031.2	7015.9	6973.3	6820.7	6659.2	6570.7	6678.9	7494.7	8101.6	7560.3	6674.3
35°	7749.4	7720.4	7630.4	7418.4	7259.8	7191.2	7241.6	7993.4	8925.1	8347.1	7288.9
37.5°	8424.9	8469.1	8377.7	8084.8	7879.0	7854.5	7911.0	8601.8	9812.6	9227.0	7994.8
40°	9103.5	9111.1	9028.7	8789.4	8577.4	8537.7	8679.5	9339.8	10860.2	10279.1	8853.4
42.5°	9804.9	9820.1	9681.4	9460.3	9304.7	9312.3	9474.0	10204.4	12061.6	11518.8	9841.5
45°	10636.0	10658.8	10506.4	10216.7	10074.8	10360.0	10292.9	11174.3	13379.3	12927.8	10975.9
47.5°	11505.1	11540.2	11424.2	11152.8	10975.9	11367.9	11111.6	12249.3	14797.3	14438.9	12221.8
50°	11979.4	12029.7	12142.5	12122.8	12084.6	12018.9	12025.1	13402.1	16259.6	16012.6	13502.7
52.5°	11724.7	11723.2	12134.9	12635.1	13168.8	13208.4	13138.2	14617.4	17625.9	17551.2	14708.9
55°	10559.7	10639.0	11262.7	12230.9	13688.8	14599.1	14806.5	16009.5	18967.9	19054.7	15933.4
57.5°	8620.1	8685.7	9527.4	10876.9	12987.3	15425.6	17179.2	18033.1	20468.3	20873.9	17563.4
60°	5846.4	5925.6	6817.7	8438.6	11099.5	14965.0	19437.4	21643.9	22264.7	23187.1	19850.8
62.5°	3435.5	3507.2	4234.6	5323.3	7815.0	12825.6	20428.6	26781.3	25117.6	26677.5	23339.6
65°	2365.0	2413.9	2767.6	3313.5	4490.8	8638.4	19199.6	30328.0	29507.7	31002.1	27385.1
67.5°	1903.1	1897.0	2177.5	2549.6	2891.1	4454.2	14518.3	29927.1	33368.7	33992.3	29484.8
70°	1567.6	1561.5	1752.1	2060.1	2310.2	2508.4	7907.9	25254.8	32581.8	32835.0	27551.4
72.5°	1311.4	1317.4	1439.5	1668.2	1895.4	1889.3	3475.2	17766.2	25631.4	27382.0	21962.6
75°	1107.1	1110.1	1190.9	1352.5	1538.6	1521.9	1884.7	9624.9	14899.4	16117.8	12174.5
77.5°	942.4	945.4	997.2	1087.2	1219.9	1213.8	1375.5	4158.3	6215.3	6139.2	4164.4
80°	840.2	840.2	864.6	881.4	954.6	927.2	1020.2	1997.6	2627.3	2426.1	1662.1
82.5°	658.8	661.8	811.2	805.1	751.8	716.7	716.7	1177.2	1392.2	1287.0	972.9
85°	370.5	369.0	523.1	631.3	661.8	504.8	500.2	658.8	757.8	667.9	471.2
87.5°	158.5	161.6	242.4	280.6	375.1	314.1	309.5	340.1	385.8	333.9	218.1
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°	4303.1	4303.1	4303.1	4303.1	4303.1	4303.1	4303.1	4303.1	4303.1	4303.1	4303.1
2.5°	4304.7	4265.1	4178.2	4069.9	3972.2	3908.2	3850.3	3766.3	3771.0	3713.0	3670.3
5°	4301.6	4219.3	4018.0	3778.6	3548.4	3382.1	3257.1	3144.3	3116.8	3063.4	3031.4
7.5°	4304.7	4170.5	3831.9	3449.2	3164.1	2953.8	2847.0	2787.4	2773.8	2755.4	2756.9
10°	4315.4	4126.2	3627.6	3141.2	2842.4	2703.6	2677.6	2696.0	2717.3	2723.4	2724.9
12.5°	4339.8	4086.7	3403.5	2866.8	2641.2	2598.4	2642.6	2705.2	2746.3	2766.1	2764.6
15°	4394.6	4056.1	3188.5	2651.7	2529.8	2552.7	2635.0	2723.4	2782.9	2810.3	2811.9
17.5°	4454.2	4011.9	2967.4	2487.1	2447.4	2505.4	2607.5	2711.3	2784.4	2814.9	2821.0
20°	4531.8	3957.1	2735.7	2363.5	2369.7	2435.2	2531.3	2635.0	2715.7	2741.8	2753.9
22.5°	4634.1	3897.6	2532.8	2262.9	2281.3	2331.5	2406.2	2496.2	2566.4	2578.5	2589.2
25°	4771.4	3833.5	2371.2	2171.4	2179.0	2208.0	2258.3	2311.7	2360.5	2346.8	2357.5
27.5°	4955.8	3778.6	2250.7	2087.5	2073.8	2080.0	2105.9	2122.6	2148.6	2110.5	2115.0
30°	5172.4	3719.1	2157.7	2014.3	1976.3	1965.6	1971.7	1980.8	2000.6	1948.7	1941.2
32.5°	5423.9	3647.5	2070.8	1950.3	1897.0	1875.6	1878.6	1903.1	1979.2	1947.2	1930.5
35°	5716.8	3566.7	1979.2	1880.2	1843.5	1813.0	1810.0	1886.3	2113.5	2093.6	2078.4
37.5°	6059.8	3485.8	1887.8	1800.9	1803.9	1770.3	1759.7	1846.6	2139.4	2061.6	2050.9
40°	6495.9	3443.2	1810.0	1717.0	1755.1	1750.6	1729.2	1773.4	1968.7	1826.9	1808.5
42.5°	7035.7	3449.2	1752.1	1627.0	1697.2	1746.0	1712.4	1714.0	1784.1	1677.3	1660.6
45°	7702.1	3520.9	1710.9	1555.5	1631.6	1741.4	1706.3	1681.9	1688.0	1631.6	1622.5
47.5°	8479.8	3668.8	1681.9	1495.9	1569.1	1724.6	1704.8	1672.8	1659.1	1628.5	1621.0
50°	9344.4	3883.8	1660.6	1439.5	1512.7	1697.2	1706.3	1663.6	1648.4	1636.1	1631.6
52.5°	10193.8	4129.4	1628.5	1390.7	1468.5	1663.6	1710.9	1654.5	1637.7	1628.5	1624.0
55°	11140.7	4435.8	1579.8	1349.5	1431.9	1621.0	1710.9	1640.7	1622.5	1624.0	1622.5
57.5°	12420.0	4931.4	1521.9	1314.4	1387.6	1569.1	1681.9	1625.6	1602.7	1604.2	1605.7
60°	14419.2	5805.2	1451.7	1279.3	1332.8	1508.1	1642.2	1591.9	1569.1	1575.2	1576.7
62.5°	17359.1	7087.5	1360.2	1227.5	1274.8	1442.5	1587.4	1549.3	1526.4	1541.6	1541.6
65°	20414.9	8219.0	1247.3	1162.0	1213.8	1370.8	1518.8	1495.9	1473.1	1508.1	1506.5
67.5°	21236.8	7965.9	1134.5	1090.3	1152.8	1291.6	1436.4	1424.2	1412.0	1473.1	1470.0
70°	18865.7	6395.3	1030.9	1017.1	1085.7	1206.2	1347.9	1347.9	1340.4	1386.1	1375.5
72.5°	14373.4	4535.0	931.7	939.3	1009.4	1113.2	1251.9	1262.6	1250.4	1273.3	1264.1
75°	7694.5	2595.4	832.5	854.0	914.9	1018.7	1145.1	1155.9	1148.2	1146.6	1151.3
77.5°	2557.2	1268.7	728.9	762.4	815.8	921.0	1033.8	1050.6	1032.3	1029.3	1027.8
80°	1139.0	797.5	614.5	658.8	706.1	809.7	916.4	930.2	910.3	937.8	902.7
82.5°	731.9	524.6	492.5	541.4	587.0	698.3	799.0	802.1	783.8	910.3	776.2
85°	355.3	324.8	370.5	414.7	454.4	548.9	661.8	663.3	617.6	562.6	542.8
87.5°	176.9	189.1	247.0	286.7	306.5	376.6	481.9	472.6	452.9	411.7	379.6
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)