

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: P193104

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193104
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-T2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27300.6 lumens
Efficiency: N/A
Efficacy: 109.6 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): 249
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

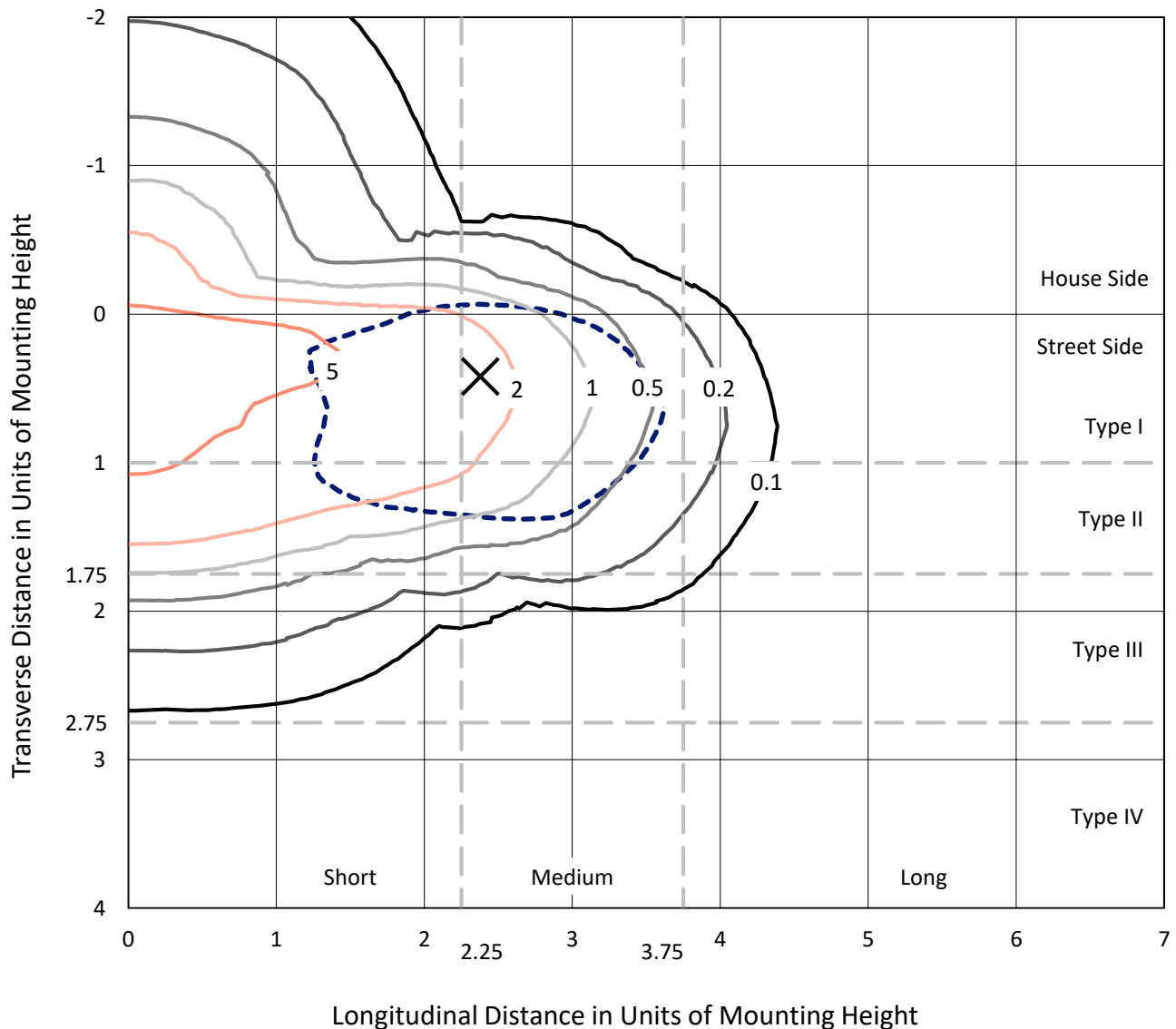


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

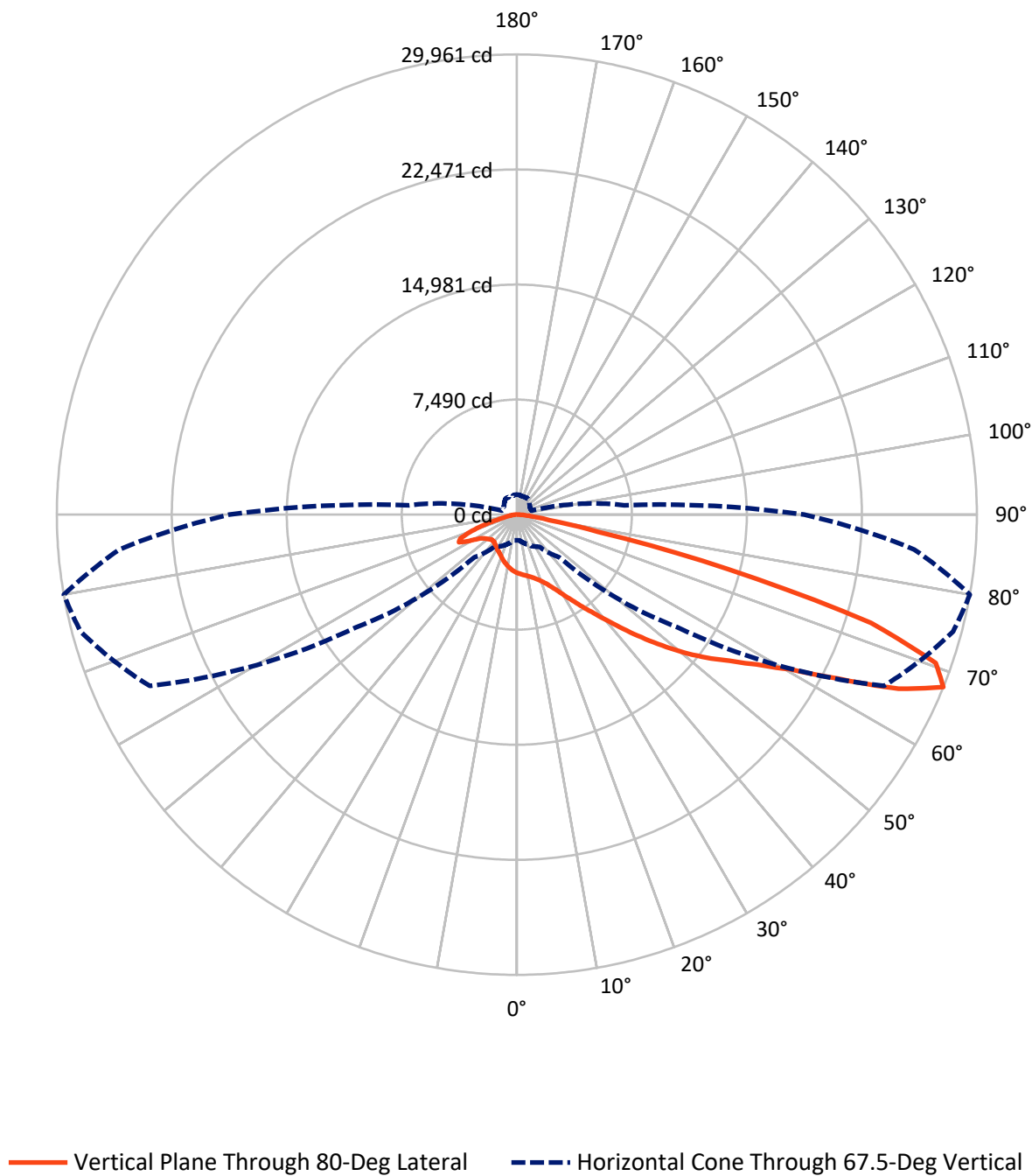


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5027.7	0.0	5027.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	22272.9	0.0	22272.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	27300.6	0.0	27300.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.9	1.3
10°-20°	1007.9	3.7
20°-30°	1668.3	6.1
30°-40°	2728.9	10.0
40°-50°	4406.0	16.1
50°-60°	6361.0	23.3
60°-70°	7019.7	25.7
70°-80°	3235.7	11.9
80°-90°	523.3	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°	27300.6	100.0
0°-180°	27300.6	100.0

Coefficient of Utilization



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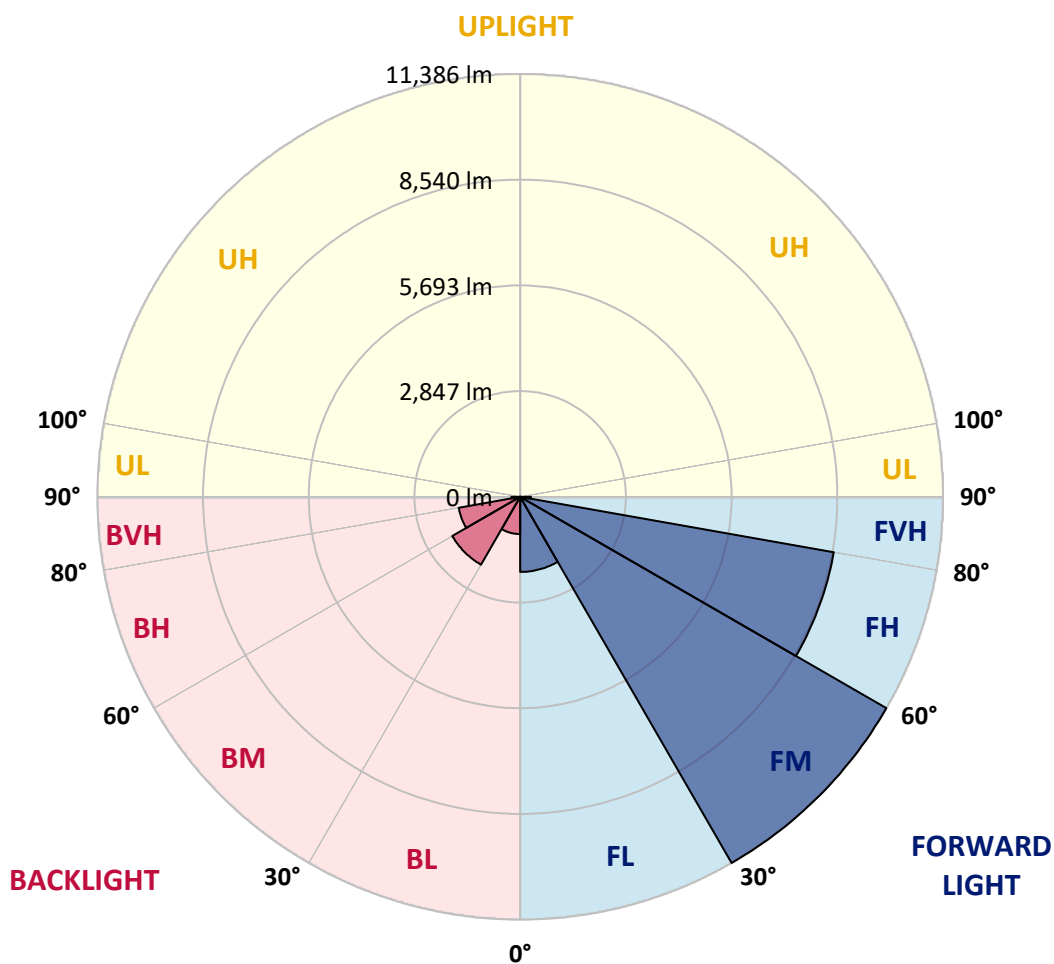
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2022.9	7.4			
FM	(30°-60°)	11386.4	41.7			
FH	(60°-80°)	8575.8	31.4			G4/12000
FVH	(80°-90°)	287.7	1.1			G3/500
BL	(0°-30°)	1003.1	3.7	B3/2500		
BM	(30°-60°)	2109.5	7.7	B2/2500		
BH	(60°-80°)	1679.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	235.6	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°	3792.8	3792.8	3792.8	3792.8	3792.8	3792.8	3792.8	3792.8	3792.8	3792.8	3792.8
2.5°	4149.0	4124.9	4128.9	4122.2	4102.0	4067.0	4029.4	3960.8	3889.6	3851.9	3822.4
5°	4495.8	4489.0	4479.6	4458.1	4407.1	4334.6	4244.4	4123.5	3993.1	3924.6	3858.7
7.5°	4755.2	4751.1	4739.0	4725.6	4675.9	4588.6	4452.8	4280.8	4091.2	3997.1	3895.0
10°	4776.7	4783.4	4792.7	4829.0	4835.9	4788.8	4650.3	4442.1	4193.4	4072.4	3942.1
12.5°	4594.0	4608.7	4644.9	4737.7	4835.9	4893.6	4822.3	4611.4	4313.0	4166.5	4001.2
15°	4352.1	4360.0	4404.3	4532.1	4708.1	4886.8	4954.2	4798.2	4467.5	4287.5	4089.9
17.5°	4248.4	4252.5	4283.4	4368.0	4532.1	4787.4	5028.0	5001.2	4657.0	4438.0	4198.8
20°	4196.1	4205.5	4249.8	4333.1	4436.7	4659.8	5038.7	5220.2	4882.9	4626.1	4335.9
22.5°	4345.2	4341.2	4357.4	4399.0	4486.4	4620.8	5030.8	5446.0	5170.4	4868.0	4514.6
25°	4693.3	4708.1	4679.9	4632.9	4661.1	4755.2	5073.7	5690.7	5530.7	5178.6	4748.4
27.5°	5189.3	5174.5	5132.9	5022.6	4964.8	5005.1	5216.1	5954.1	5978.2	5587.1	5057.6
30°	5683.8	5671.7	5631.4	5497.1	5378.9	5345.2	5493.0	6256.4	6511.9	6077.6	5436.6
32.5°	6197.3	6183.8	6146.3	6011.9	5869.4	5791.4	5886.9	6606.0	7140.8	6663.7	5882.8
35°	6830.4	6804.7	6725.6	6538.7	6398.9	6338.4	6382.8	7045.4	7866.5	7357.2	6424.5
37.5°	7425.8	7464.7	7384.1	7126.0	6944.6	6923.1	6972.8	7581.7	8648.9	8132.7	7046.7
40°	8023.9	8030.5	7958.0	7747.0	7560.2	7525.2	7650.3	8232.1	9572.2	9060.1	7803.4
42.5°	8642.1	8655.5	8533.2	8338.3	8201.2	8208.0	8350.4	8994.2	10631.3	10152.8	8674.3
45°	9374.6	9394.7	9260.4	9005.0	8880.0	9131.4	9072.3	9849.0	11792.5	11394.6	9674.4
47.5°	10140.7	10171.6	10069.5	9830.3	9674.4	10019.7	9793.9	10796.6	13042.5	12726.6	10772.4
50°	10558.7	10603.1	10702.5	10685.0	10651.4	10593.7	10599.0	11812.7	14331.4	14113.7	11901.4
52.5°	10334.3	10332.8	10695.8	11136.6	11607.0	11642.0	11580.2	12883.9	15535.6	15469.8	12964.4
55°	9307.4	9377.2	9927.0	10780.5	12065.4	12867.7	13050.5	14111.0	16718.5	16795.0	14043.7
57.5°	7597.8	7655.6	8397.4	9587.0	11447.1	13596.2	15141.8	15894.5	18040.9	18398.3	15480.5
60°	5153.0	5222.9	6009.2	7437.9	9783.2	13190.4	17132.3	19077.1	19624.2	20437.3	17496.6
62.5°	3028.1	3091.3	3732.4	4692.0	6888.1	11304.6	18005.9	23605.1	22138.8	23513.8	20571.7
65°	2084.5	2127.6	2439.4	2920.6	3958.1	7613.9	16922.6	26731.4	26008.3	27325.4	24137.4
67.5°	1677.3	1672.0	1919.2	2247.3	2548.3	3925.9	12796.5	26377.9	29411.4	29961.1	25988.2
70°	1381.7	1376.3	1544.3	1815.8	2036.1	2211.0	6970.0	22259.8	28717.8	28940.9	24284.0
72.5°	1155.9	1161.2	1268.7	1470.4	1670.6	1665.2	3063.1	15659.2	22591.7	24134.8	19358.0
75°	975.8	978.4	1049.7	1192.1	1356.1	1341.3	1661.2	8483.6	13132.5	14206.4	10730.7
77.5°	830.6	833.3	879.0	958.3	1075.2	1069.8	1212.3	3665.2	5478.3	5411.1	3670.6
80°	740.6	740.6	762.1	776.9	841.4	817.1	899.2	1760.7	2315.8	2138.3	1464.9
82.5°	580.6	583.3	715.0	709.6	662.6	631.7	631.7	1037.6	1227.1	1134.3	857.4
85°	326.5	325.3	461.0	556.4	583.3	444.9	440.9	580.6	668.0	588.7	415.3
87.5°	139.8	142.5	213.7	247.3	330.6	276.9	272.8	299.7	340.1	294.4	192.2
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°	3792.8	3792.8	3792.8	3792.8	3792.8	3792.8	3792.8	3792.8	3792.8	3792.8	3792.8
2.5°	3794.2	3759.3	3682.7	3587.2	3501.2	3444.7	3393.7	3319.8	3323.7	3272.8	3235.0
5°	3791.6	3718.9	3541.5	3330.6	3127.5	2981.0	2870.9	2771.4	2747.3	2700.2	2671.9
7.5°	3794.2	3675.9	3377.5	3040.1	2788.9	2603.4	2509.2	2456.9	2444.7	2428.7	2430.0
10°	3803.7	3636.9	3197.5	2768.7	2505.4	2383.0	2360.1	2376.3	2395.1	2400.4	2401.7
12.5°	3825.0	3602.0	2999.8	2526.7	2327.9	2290.2	2329.2	2384.2	2420.6	2438.1	2436.7
15°	3873.5	3575.1	2810.3	2337.3	2229.8	2249.8	2322.6	2400.4	2452.9	2477.0	2478.4
17.5°	3925.9	3536.1	2615.4	2192.1	2157.3	2208.2	2298.3	2389.7	2454.2	2481.1	2486.4
20°	3994.4	3487.8	2411.2	2083.2	2088.6	2146.4	2231.1	2322.6	2393.8	2416.6	2427.3
22.5°	4084.5	3435.3	2232.3	1994.5	2010.7	2055.0	2120.8	2200.2	2262.0	2272.7	2282.2
25°	4205.5	3378.9	2089.9	1913.9	1920.7	1946.1	1990.4	2037.5	2080.6	2068.5	2077.9
27.5°	4368.0	3330.6	1983.8	1839.9	1827.9	1833.3	1856.1	1870.8	1893.8	1860.1	1864.2
30°	4559.0	3278.1	1901.7	1775.5	1741.8	1732.5	1737.9	1745.9	1763.3	1717.7	1711.0
32.5°	4780.7	3215.0	1825.1	1718.9	1672.0	1653.2	1655.9	1677.3	1744.6	1716.4	1701.5
35°	5038.7	3143.7	1744.6	1657.1	1624.9	1598.0	1595.4	1662.6	1862.9	1845.4	1832.0
37.5°	5341.1	3072.5	1663.9	1587.3	1589.9	1560.4	1551.1	1627.6	1885.7	1817.1	1807.7
40°	5725.5	3034.7	1595.4	1513.4	1547.0	1543.0	1524.1	1563.1	1735.1	1610.2	1594.0
42.5°	6201.3	3040.1	1544.3	1434.0	1495.9	1538.9	1509.3	1510.7	1572.5	1478.4	1463.6
45°	6788.8	3103.4	1508.0	1370.8	1438.1	1534.9	1504.0	1482.4	1487.9	1438.1	1430.1
47.5°	7474.1	3233.7	1482.4	1318.5	1383.0	1520.2	1502.7	1474.5	1462.3	1435.4	1428.7
50°	8236.2	3423.2	1463.6	1268.7	1333.3	1495.9	1504.0	1466.4	1452.9	1442.1	1438.1
52.5°	8984.8	3639.7	1435.4	1225.8	1294.2	1466.4	1508.0	1458.3	1443.6	1435.4	1431.4
55°	9819.4	3909.8	1392.4	1189.5	1262.1	1428.7	1508.0	1446.1	1430.1	1431.4	1430.1
57.5°	10947.1	4346.6	1341.3	1158.5	1223.0	1383.0	1482.4	1432.7	1412.6	1414.0	1415.2
60°	12709.1	5116.7	1279.5	1127.7	1174.6	1329.2	1447.4	1403.2	1383.0	1388.3	1389.8
62.5°	15300.4	6247.0	1198.9	1082.0	1123.6	1271.4	1399.2	1365.5	1345.4	1358.8	1358.8
65°	17993.9	7244.3	1099.3	1024.2	1069.8	1208.3	1338.7	1318.5	1298.3	1329.2	1327.9
67.5°	18718.3	7021.2	999.9	960.9	1016.1	1138.4	1266.1	1255.3	1244.6	1298.3	1295.6
70°	16628.2	5636.9	908.6	896.5	957.0	1063.1	1188.0	1188.0	1181.4	1221.7	1212.3
72.5°	12668.8	3997.1	821.2	827.9	889.7	981.1	1103.4	1112.8	1102.1	1122.3	1114.2
75°	6781.9	2287.6	733.7	752.7	806.5	897.8	1009.3	1018.8	1012.1	1010.7	1014.7
77.5°	2253.9	1118.3	642.5	672.1	719.0	811.8	911.2	926.1	909.9	907.2	905.9
80°	1004.0	703.0	541.6	580.6	622.2	713.7	807.8	819.9	802.4	826.5	795.6
82.5°	645.1	462.3	434.1	477.1	517.5	615.5	704.2	706.9	690.8	802.4	684.1
85°	313.1	286.3	326.5	365.6	400.6	483.8	583.3	584.6	544.3	495.9	478.4
87.5°	155.9	166.6	217.8	252.7	270.2	331.9	424.7	416.6	399.2	362.8	334.7
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)