

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: P191373

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191373
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29865 lumens
Efficiency: N/A
Efficacy: 107.0 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): 279
Input Voltage (V): NR
Input Current (A_{in}): 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

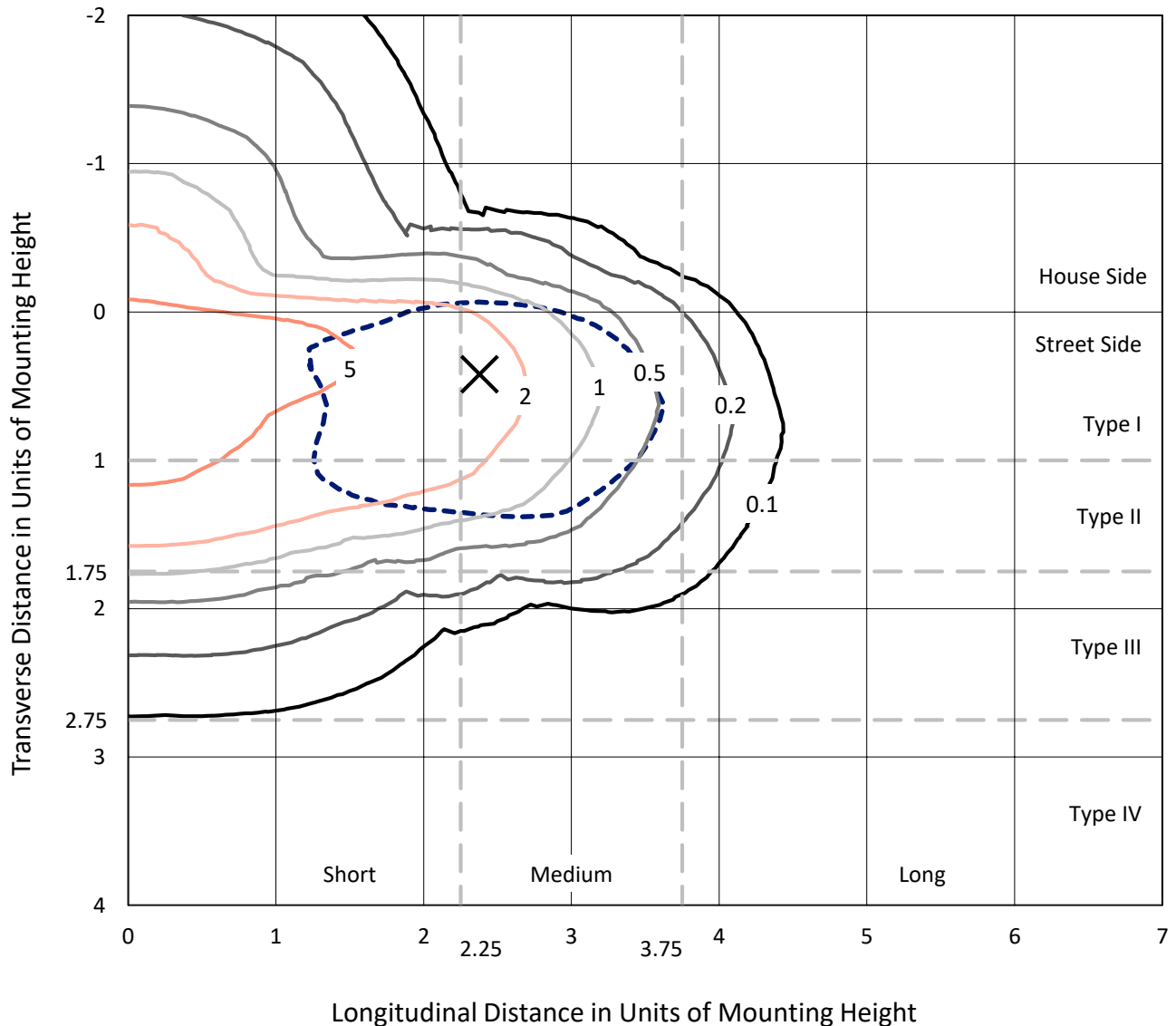


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

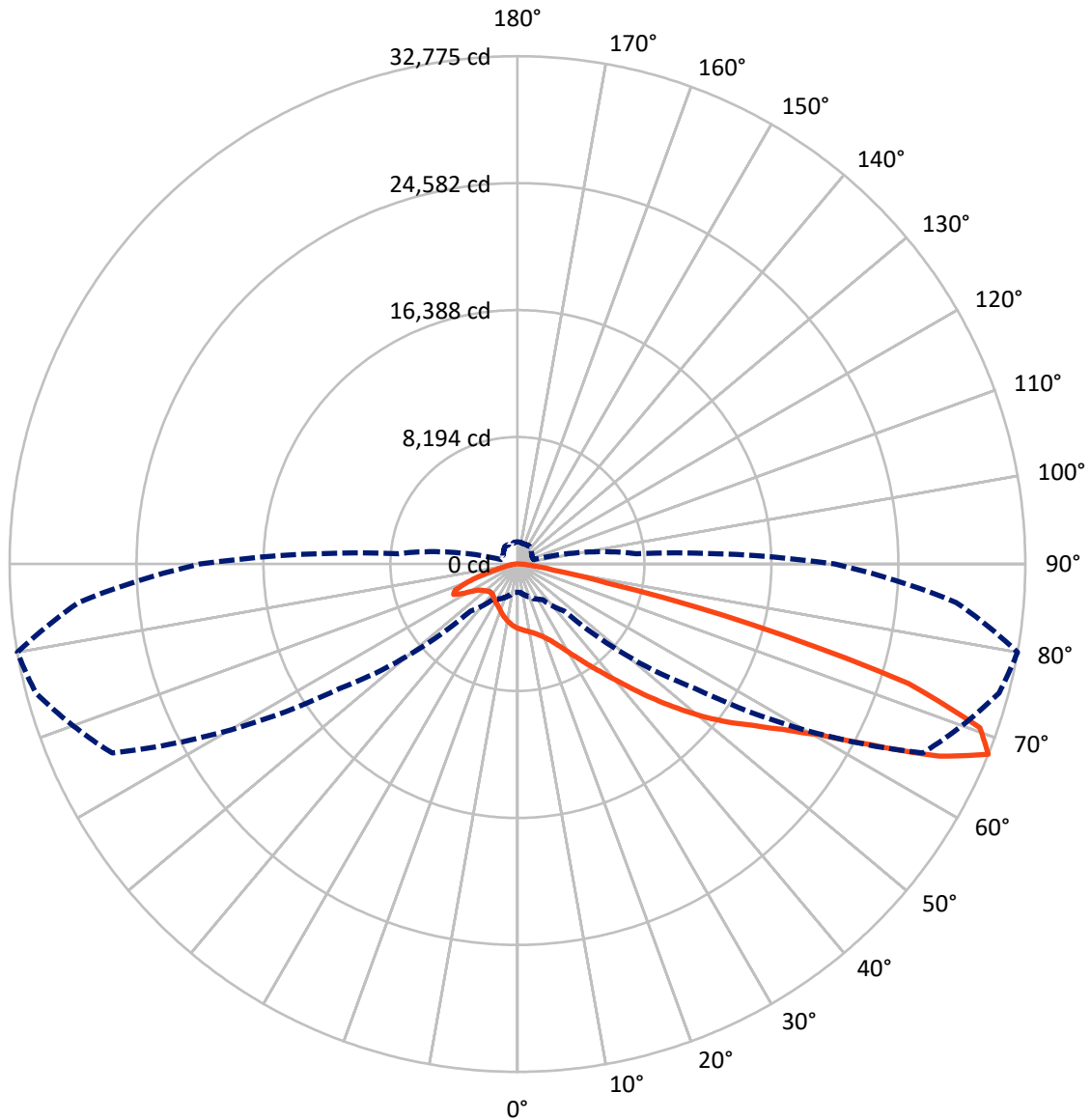


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5500.0	0.0	5500.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	24365.0	0.0	24365.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	29865.0	0.0	29865.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.7	1.3
10°-20°	1102.6	3.7
20°-30°	1825.0	6.1
30°-40°	2985.2	10.0
40°-50°	4819.9	16.1
50°-60°	6958.5	23.3
60°-70°	7679.1	25.7
70°-80°	3539.6	11.9
80°-90°	572.5	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°	29865.0	100.0
0°-180°	29865.0	100.0



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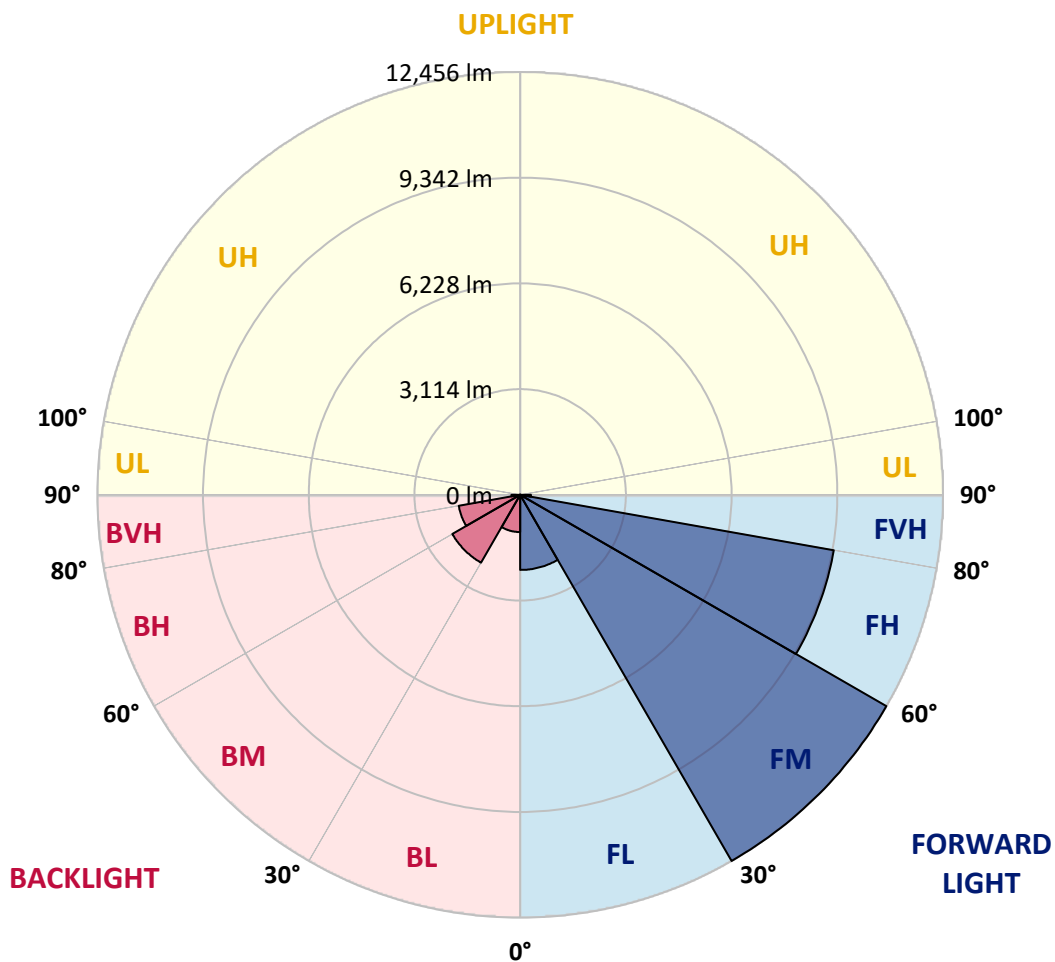
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2212.9	7.4			
FM (30°-60°)	12455.9	41.7			
FH (60°-80°)	9381.4	31.4			G4/12000
FVH (80°-90°)	314.8	1.1			G3/500
BL (0°-30°)	1097.3	3.7	B3/2500		
BM (30°-60°)	2307.6	7.7	B2/2500		
BH (60°-80°)	1837.3	6.2	B3/2500		G3/2500
BVH (80°-90°)	257.7	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°	4149.1	4149.1	4149.1	4149.1	4149.1	4149.1	4149.1	4149.1	4149.1	4149.1	4149.1
2.5°	4538.7	4512.2	4516.7	4509.4	4487.3	4449.0	4407.9	4332.9	4255.0	4213.8	4181.5
5°	4918.0	4910.8	4900.4	4876.9	4821.1	4741.7	4643.2	4510.8	4368.2	4293.2	4221.2
7.5°	5201.8	5197.4	5184.2	5169.5	5115.1	5019.5	4871.0	4682.9	4475.5	4372.6	4260.9
10°	5225.3	5232.7	5243.0	5282.7	5290.1	5238.6	5087.1	4859.2	4587.2	4455.0	4312.4
12.5°	5025.5	5041.6	5081.3	5182.8	5290.1	5353.3	5275.4	5044.5	4718.2	4557.9	4377.0
15°	4760.7	4769.6	4818.1	4957.7	5150.4	5345.9	5419.5	5248.9	4887.2	4690.2	4474.1
17.5°	4647.6	4652.0	4685.7	4778.4	4957.7	5237.1	5500.3	5470.9	5094.5	4854.8	4593.2
20°	4590.2	4600.5	4649.0	4740.1	4853.4	5097.5	5512.1	5710.5	5341.5	5060.7	4743.1
22.5°	4753.4	4748.9	4766.6	4812.3	4907.8	5054.8	5503.3	5957.6	5656.2	5325.4	4938.7
25°	5134.2	5150.4	5119.5	5068.0	5098.9	5201.8	5550.3	6225.2	6050.2	5665.0	5194.4
27.5°	5676.8	5660.6	5615.0	5494.5	5431.3	5475.3	5706.1	6513.3	6539.8	6111.9	5532.6
30°	6217.8	6204.6	6160.4	6013.4	5884.0	5847.3	6009.0	6844.2	7123.5	6648.6	5947.2
32.5°	6779.4	6764.8	6723.5	6576.6	6420.7	6335.4	6439.8	7226.4	7811.6	7289.6	6435.4
35°	7471.9	7444.0	7357.3	7152.9	7000.0	6933.9	6982.4	7707.2	8605.6	8048.3	7028.0
37.5°	8123.3	8165.9	8077.7	7795.4	7596.9	7573.4	7627.8	8293.9	9461.3	8896.6	7708.7
40°	8777.5	8784.9	8705.5	8474.6	8270.4	8232.1	8368.9	9005.4	10471.3	9911.2	8536.4
42.5°	9453.9	9468.6	9334.8	9121.7	8971.6	8979.0	9134.8	9839.2	11629.9	11106.5	9489.2
45°	10255.2	10277.3	10130.2	9850.8	9714.1	9989.1	9924.4	10774.2	12900.2	12465.1	10583.0
47.5°	11093.3	11127.0	11015.3	10753.6	10583.0	10960.9	10713.9	11810.8	14267.6	13922.1	11784.3
50°	11550.5	11599.0	11707.8	11688.7	11651.9	11588.7	11594.6	12922.2	15677.5	15439.4	13019.3
52.5°	11304.9	11303.5	11700.5	12182.7	12697.3	12735.5	12667.9	14094.1	16994.9	16922.9	14182.3
55°	10181.6	10258.2	10859.4	11793.1	13198.7	14076.4	14276.4	15436.4	18288.8	18372.6	15363.0
57.5°	8311.5	8374.7	9186.3	10487.5	12522.4	14873.3	16564.1	17387.5	19735.6	20126.7	16934.6
60°	5637.1	5713.5	6573.6	8136.6	10702.1	14429.3	18741.6	20869.1	21467.5	22357.0	19140.1
62.5°	3312.5	3381.7	4083.0	5132.8	7535.2	12366.6	19697.3	25822.4	24218.5	25722.5	22504.1
65°	2280.4	2327.4	2668.6	3194.9	4329.9	8329.2	18512.2	29242.4	28451.3	29892.3	26404.7
67.5°	1834.9	1829.0	2099.6	2458.4	2787.6	4294.7	13998.5	28855.7	32174.1	32775.4	28429.3
70°	1511.4	1505.6	1689.3	1986.4	2227.5	2418.6	7624.9	24350.7	31415.4	31659.5	26565.0
72.5°	1264.5	1270.3	1387.9	1608.5	1827.6	1821.7	3350.8	17130.2	24713.9	26401.7	21176.4
75°	1067.4	1070.3	1148.3	1304.2	1483.5	1467.3	1817.3	9280.4	14366.1	15540.9	11738.7
77.5°	908.6	911.6	961.6	1048.3	1176.2	1170.4	1326.2	4009.5	5992.9	5919.3	4015.3
80°	810.1	810.1	833.6	849.9	920.3	894.0	983.6	1926.1	2533.3	2339.2	1602.6
82.5°	635.2	638.1	782.1	776.3	724.9	691.0	691.0	1135.1	1342.3	1240.9	938.0
85°	357.3	355.8	504.3	608.7	638.1	486.6	482.2	635.2	730.7	643.9	454.3
87.5°	152.9	155.9	233.7	270.6	361.7	302.9	298.5	327.9	371.9	322.0	210.2
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°	4149.1	4149.1	4149.1	4149.1	4149.1	4149.1	4149.1	4149.1	4149.1	4149.1	4149.1
2.5°	4150.6	4112.4	4028.6	3924.1	3830.0	3768.3	3712.5	3631.6	3636.0	3580.1	3539.0
5°	4147.7	4068.3	3874.2	3643.3	3421.4	3261.1	3140.6	3031.7	3005.2	2953.8	2922.9
7.5°	4150.6	4021.2	3694.8	3325.8	3050.8	2847.9	2745.0	2687.7	2674.4	2656.8	2658.2
10°	4160.9	3978.6	3497.8	3028.8	2740.6	2606.8	2581.8	2599.4	2620.1	2625.9	2627.3
12.5°	4184.4	3940.3	3281.6	2764.1	2546.5	2505.3	2548.0	2608.3	2648.0	2667.0	2665.6
15°	4237.4	3910.9	3074.4	2556.8	2439.2	2461.2	2540.6	2625.9	2683.3	2709.7	2711.2
17.5°	4294.7	3868.3	2861.2	2398.0	2359.8	2415.7	2514.2	2614.2	2684.7	2714.1	2720.0
20°	4369.6	3815.4	2637.7	2278.9	2284.8	2348.1	2440.7	2540.6	2618.5	2643.5	2655.3
22.5°	4468.1	3758.0	2442.1	2181.9	2199.5	2248.0	2320.1	2406.8	2474.5	2486.3	2496.5
25°	4600.5	3696.2	2286.3	2093.7	2101.0	2129.0	2177.5	2228.9	2276.0	2262.8	2273.1
27.5°	4778.4	3643.3	2170.1	2012.9	1999.6	2005.5	2030.5	2046.6	2071.6	2034.9	2039.3
30°	4987.2	3586.1	2080.5	1942.3	1905.5	1895.2	1901.1	1909.8	1929.0	1879.1	1871.7
32.5°	5229.7	3516.9	1996.6	1880.5	1829.0	1808.5	1811.3	1834.9	1908.4	1877.5	1861.4
35°	5512.1	3439.0	1908.4	1812.9	1777.6	1748.1	1745.3	1818.7	2037.8	2018.7	2004.0
37.5°	5842.9	3361.0	1820.2	1736.4	1739.3	1707.0	1696.7	1780.5	2062.8	1987.8	1977.6
40°	6263.4	3319.9	1745.3	1655.5	1692.3	1687.9	1667.3	1710.0	1898.1	1761.4	1743.7
42.5°	6783.9	3325.8	1689.3	1568.8	1636.4	1683.5	1651.1	1652.6	1720.2	1617.3	1601.1
45°	7426.4	3394.9	1649.6	1499.6	1573.2	1679.1	1645.2	1621.7	1627.6	1573.2	1564.4
47.5°	8176.2	3537.5	1621.7	1442.4	1512.9	1662.9	1643.8	1612.9	1599.7	1570.2	1562.9
50°	9009.8	3744.8	1601.1	1387.9	1458.5	1636.4	1645.2	1604.1	1589.4	1577.6	1573.2
52.5°	9828.8	3981.5	1570.2	1340.9	1415.9	1604.1	1649.6	1595.3	1579.1	1570.2	1565.8
55°	10741.8	4277.1	1523.2	1301.2	1380.6	1562.9	1649.6	1582.0	1564.4	1565.8	1564.4
57.5°	11975.4	4754.9	1467.3	1267.3	1337.9	1512.9	1621.7	1567.4	1545.3	1546.7	1548.2
60°	13902.9	5597.4	1399.7	1233.6	1285.0	1454.1	1583.5	1534.9	1512.9	1518.8	1520.3
62.5°	16737.6	6833.8	1311.5	1183.6	1229.2	1390.9	1530.5	1493.8	1471.7	1486.4	1486.4
65°	19684.0	7924.8	1202.7	1120.3	1170.4	1321.8	1464.4	1442.4	1420.3	1454.1	1452.6
67.5°	20476.5	7680.7	1093.8	1051.3	1111.5	1245.3	1385.0	1373.2	1361.4	1420.3	1417.3
70°	18190.3	6166.3	993.9	980.7	1046.9	1163.0	1299.8	1299.8	1292.4	1336.5	1326.2
72.5°	13858.8	4372.6	898.4	905.7	973.3	1073.3	1207.1	1217.4	1205.6	1227.6	1218.8
75°	7419.1	2502.4	802.8	823.4	882.2	982.1	1104.2	1114.5	1107.1	1105.6	1110.1
77.5°	2465.6	1223.2	702.8	735.1	786.6	888.0	996.9	1013.0	995.3	992.5	990.9
80°	1098.3	769.0	592.5	635.2	680.8	780.7	883.6	896.8	877.8	904.2	870.4
82.5°	705.7	505.7	474.9	521.9	566.1	673.4	770.4	773.4	755.8	877.8	748.4
85°	342.6	313.1	357.3	399.9	438.1	529.3	638.1	639.5	595.5	542.6	523.4
87.5°	170.5	182.3	238.1	276.4	295.5	363.1	464.6	455.8	436.7	397.0	366.1
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)