

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: P193906

Luminaire Tested: **GLEON-AF-08-LED-E1-T2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193906
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-08-LED-E1-T2-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 30864 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

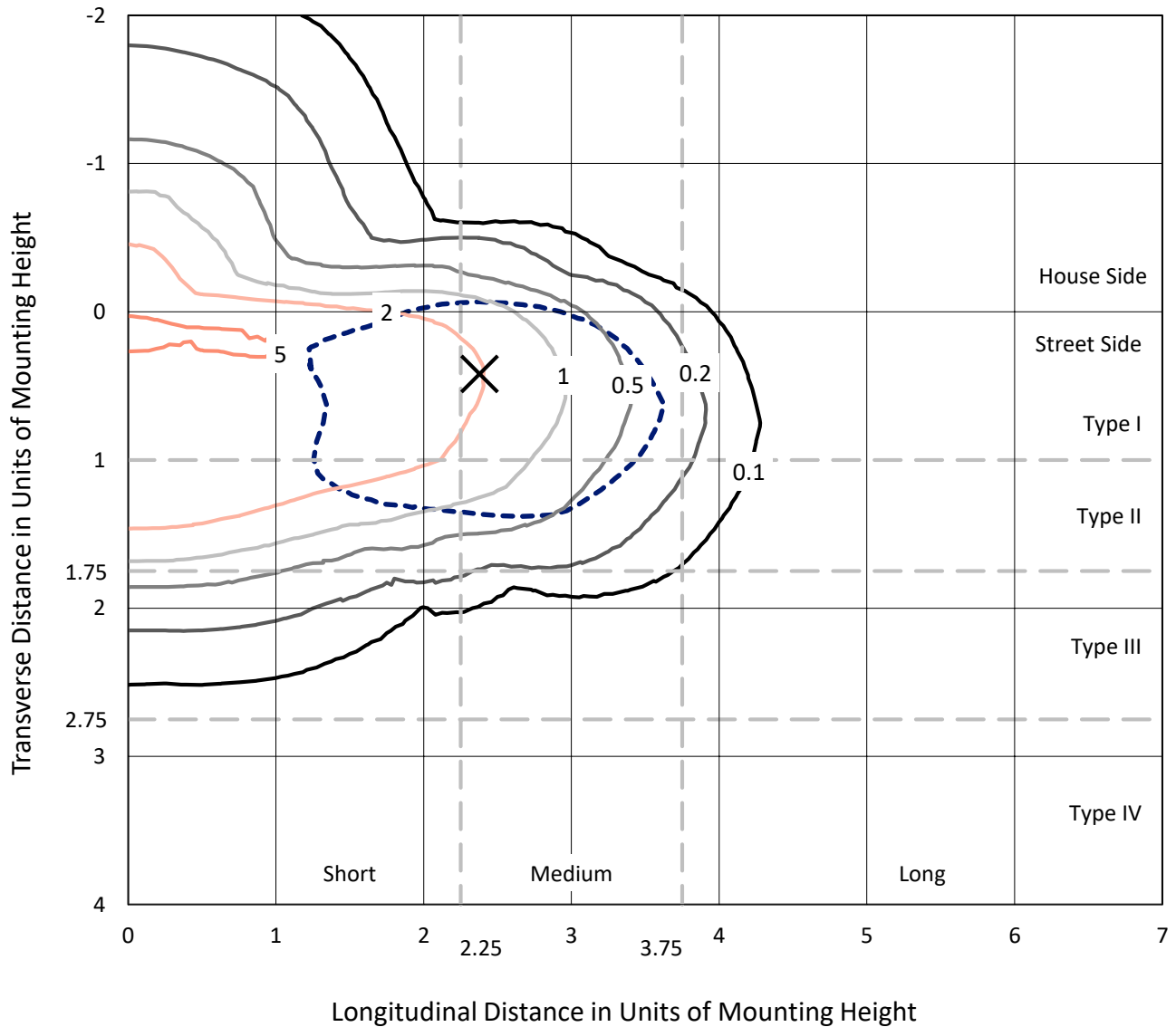
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

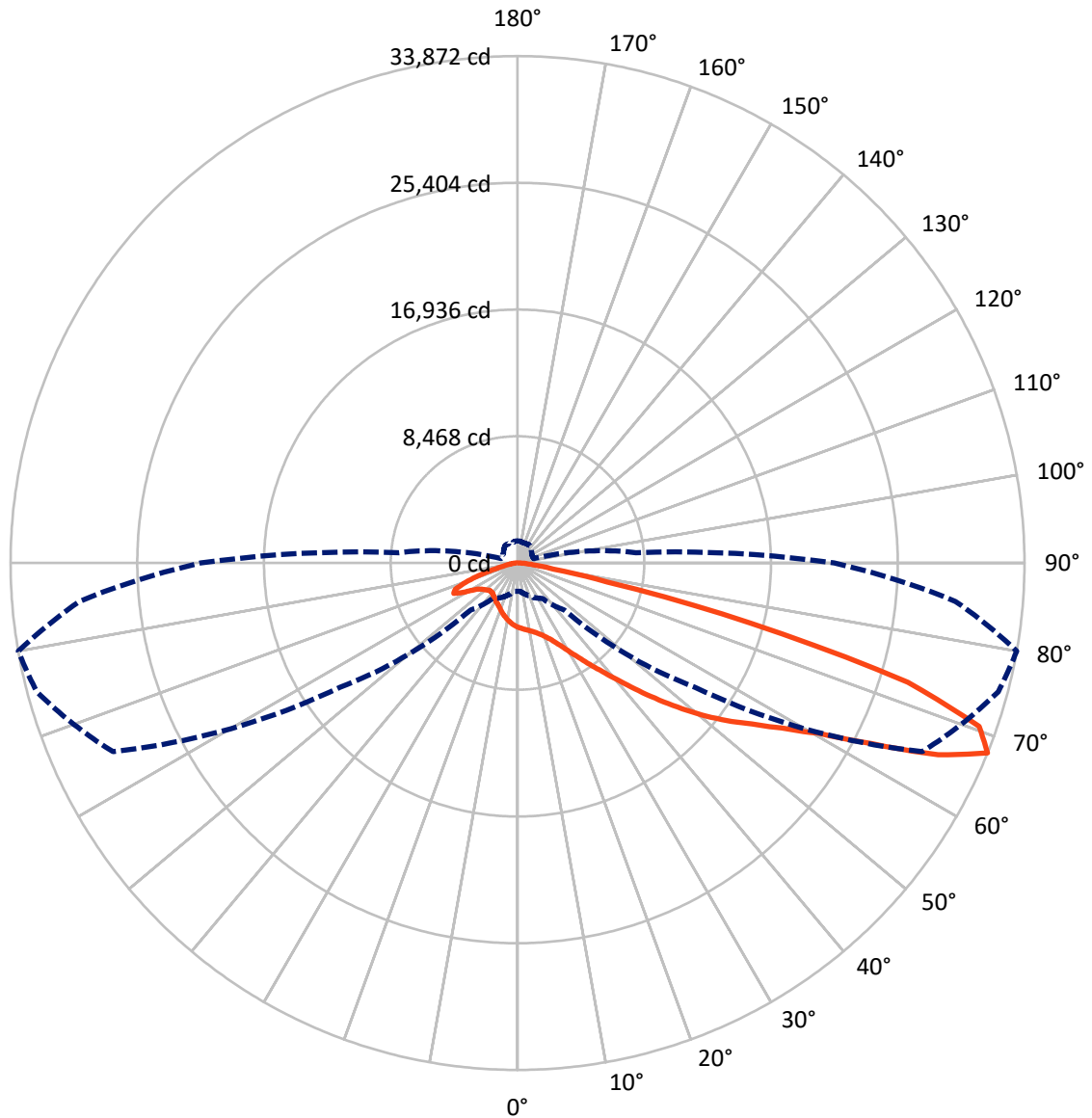


Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— 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	5684.0	0.0	5684.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	25180.0	0.0	25180.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	30864.0	0.0	30864.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.5	1.3
10°-20°	1139.4	3.7
20°-30°	1886.0	6.1
30°-40°	3085.0	10.0
40°-50°	4981.1	16.1
50°-60°	7191.2	23.3
60°-70°	7936.0	25.7
70°-80°	3658.0	11.9
80°-90°	591.7	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°	30864.0	100.0
0°-180°	30864.0	100.0



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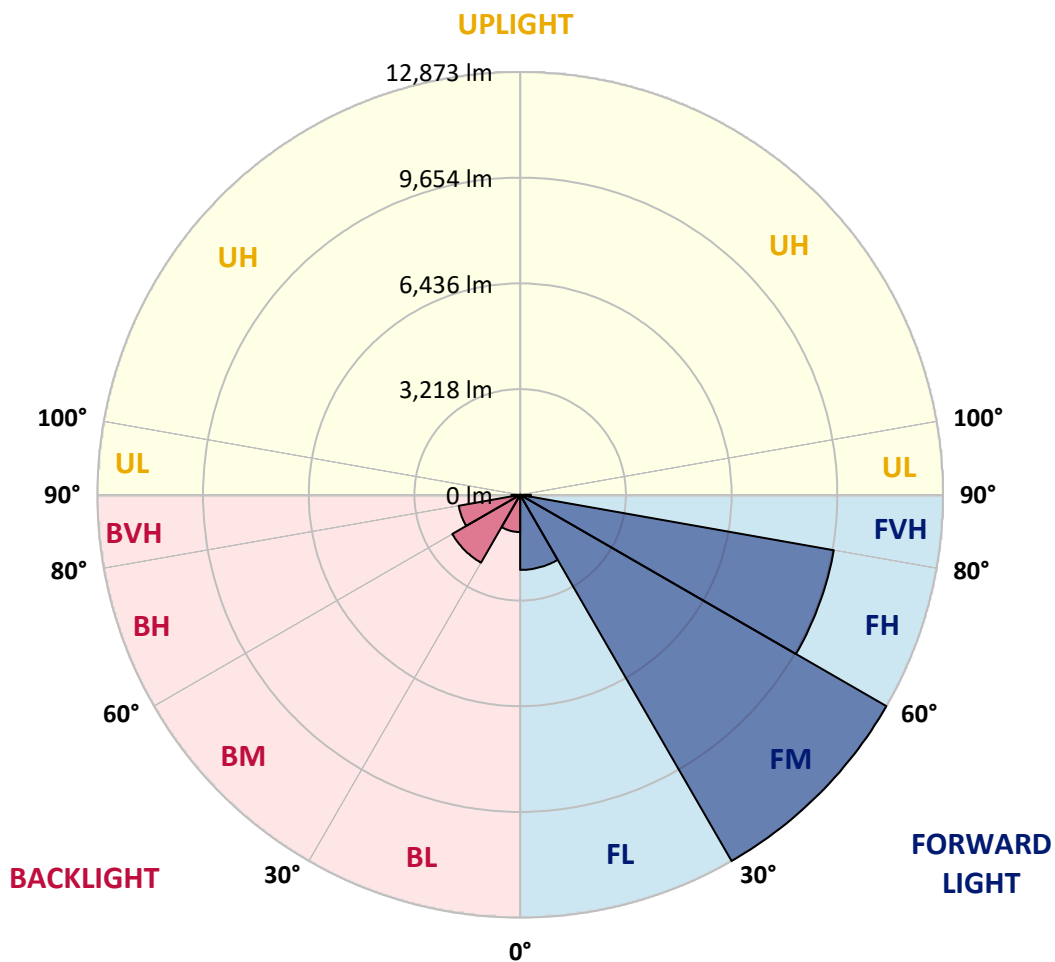
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2287.0	7.4			
FM (30°-60°)	12872.6	41.7			
FH (60°-80°)	9695.2	31.4			G4/12000
FVH (80°-90°)	325.3	1.1			G3/500
BL (0°-30°)	1134.0	3.7	B3/2500		
BM (30°-60°)	2384.8	7.7	B2/2500		
BH (60°-80°)	1898.8	6.2	B3/2500		G3/2500
BVH (80°-90°)	266.4	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°	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9
2.5°	4690.6	4663.2	4667.8	4660.2	4637.4	4597.9	4555.3	4477.8	4397.3	4354.8	4321.3
5°	5082.6	5075.0	5064.3	5040.0	4982.3	4900.2	4798.4	4661.7	4514.3	4436.8	4362.4
7.5°	5375.8	5371.3	5357.6	5342.4	5286.2	5187.4	5034.0	4839.5	4625.2	4518.9	4403.4
10°	5400.1	5407.7	5418.4	5459.4	5467.0	5413.8	5257.3	5021.8	4740.7	4604.0	4456.6
12.5°	5193.5	5210.2	5251.2	5356.1	5467.0	5532.3	5451.8	5213.3	4875.9	4710.3	4523.4
15°	4920.0	4929.1	4979.3	5123.6	5322.7	5524.7	5600.7	5424.5	5050.7	4847.1	4623.7
17.5°	4803.0	4807.6	4842.5	4938.2	5123.6	5412.3	5684.3	5653.9	5264.9	5017.2	4746.8
20°	4743.7	4754.4	4804.5	4898.7	5015.7	5268.0	5696.4	5901.6	5520.2	5230.0	4901.8
22.5°	4912.4	4907.8	4926.1	4973.2	5071.9	5223.9	5687.3	6156.8	5845.4	5503.5	5103.9
25°	5305.9	5322.7	5290.7	5237.6	5269.5	5375.8	5735.9	6433.4	6252.6	5854.5	5368.2
27.5°	5866.6	5849.9	5802.8	5678.2	5612.9	5658.5	5897.0	6731.2	6758.5	6316.4	5717.7
30°	6425.8	6412.1	6366.5	6214.6	6080.9	6042.9	6210.0	7073.1	7361.8	6871.0	6146.2
32.5°	7006.2	6991.0	6948.5	6796.5	6635.5	6547.3	6655.2	7468.1	8072.9	7533.5	6650.7
35°	7721.9	7693.0	7603.4	7392.2	7234.1	7165.8	7215.9	7965.0	8893.4	8317.5	7263.0
37.5°	8395.0	8439.1	8347.9	8056.2	7851.0	7826.7	7882.9	8571.3	9777.7	9194.2	7966.5
40°	9071.2	9078.8	8996.7	8758.1	8546.9	8507.4	8648.7	9306.7	10821.6	10242.7	8822.0
42.5°	9770.1	9785.3	9647.0	9426.7	9271.7	9279.3	9440.4	10168.2	12018.9	11478.0	9806.6
45°	10598.2	10621.0	10469.1	10180.4	10039.1	10323.2	10256.3	11134.6	13331.7	12882.0	10937.1
47.5°	11464.3	11499.2	11383.8	11113.3	10937.1	11327.6	11072.3	12205.8	14744.8	14387.7	12178.4
50°	11936.9	11987.0	12099.4	12079.7	12041.7	11976.4	11982.4	13354.5	16202.0	15955.8	13454.8
52.5°	11683.1	11681.6	12091.8	12590.2	13122.0	13161.5	13091.6	14565.5	17563.4	17488.9	14656.7
55°	10522.2	10601.3	11222.7	12187.6	13640.2	14547.3	14753.9	15952.8	18900.5	18987.1	15876.8
57.5°	8589.5	8654.8	9493.6	10838.3	12941.2	15370.8	17118.2	17969.1	20395.7	20799.8	17501.1
60°	5825.6	5904.6	6793.5	8408.7	11060.1	14911.9	19368.5	21567.2	22185.6	23104.9	19780.3
62.5°	3423.3	3494.8	4219.5	5304.4	7787.2	12780.2	20356.2	26686.2	25028.5	26582.9	23256.8
65°	2356.7	2405.3	2757.8	3301.8	4474.8	8607.7	19131.5	30220.5	29403.0	30892.1	27287.9
67.5°	1896.3	1890.2	2169.8	2540.5	2880.9	4438.3	14466.7	29820.9	33250.3	33871.7	29380.2
70°	1562.0	1555.9	1745.9	2052.8	2302.0	2499.5	7879.9	25165.2	32466.2	32718.5	27453.5
72.5°	1306.7	1312.8	1434.4	1662.3	1888.7	1882.6	3462.8	17703.2	25540.6	27284.9	21884.7
75°	1103.1	1106.2	1186.7	1347.8	1533.1	1516.4	1878.0	9590.8	14846.6	16060.7	12131.3
77.5°	939.0	942.1	993.7	1083.4	1215.6	1209.5	1370.6	4143.6	6193.3	6117.3	4149.6
80°	837.2	837.2	861.5	878.2	951.2	923.8	1016.5	1990.5	2618.0	2417.5	1656.2
82.5°	656.4	659.4	808.4	802.3	749.1	714.1	714.1	1173.0	1387.3	1282.4	969.4
85°	369.2	367.7	521.2	629.1	659.4	502.9	498.4	656.4	755.2	665.5	469.5
87.5°	158.0	161.1	241.6	279.6	373.8	313.0	308.4	338.8	384.4	332.8	217.3
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°	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9
2.5°	4289.4	4249.9	4163.3	4055.4	3958.2	3894.4	3836.6	3753.1	3757.6	3699.9	3657.3
5°	4286.4	4204.3	4003.8	3765.2	3535.8	3370.2	3245.6	3133.1	3105.8	3052.6	3020.7
7.5°	4289.4	4155.7	3818.4	3437.0	3152.9	2943.2	2836.8	2777.6	2763.9	2745.7	2747.2
10°	4300.1	4111.7	3614.8	3130.1	2832.3	2694.0	2668.2	2686.4	2707.7	2713.7	2715.3
12.5°	4324.4	4072.1	3391.4	2856.6	2631.7	2589.2	2633.2	2695.5	2736.5	2756.3	2754.8
15°	4379.1	4041.8	3177.2	2642.3	2520.8	2543.6	2625.6	2713.7	2773.0	2800.4	2801.9
17.5°	4438.3	3997.7	2956.9	2478.2	2438.7	2496.5	2598.3	2701.6	2774.5	2804.9	2811.0
20°	4515.8	3943.0	2725.9	2355.2	2361.2	2426.6	2522.3	2625.6	2706.2	2732.0	2744.1
22.5°	4617.6	3883.7	2523.8	2254.9	2273.1	2323.2	2397.7	2487.4	2557.2	2569.4	2580.0
25°	4754.4	3819.9	2362.8	2163.7	2171.3	2200.2	2250.3	2303.5	2352.1	2338.4	2349.1
27.5°	4938.2	3765.2	2242.7	2080.1	2066.5	2072.5	2098.4	2115.1	2140.9	2102.9	2107.5
30°	5154.0	3706.0	2150.0	2007.2	1969.2	1958.6	1964.7	1973.8	1993.5	1941.9	1934.3
32.5°	5404.7	3634.5	2063.4	1943.4	1890.2	1868.9	1872.0	1896.3	1972.3	1940.3	1923.6
35°	5696.4	3554.0	1972.3	1873.5	1837.0	1806.6	1803.6	1879.6	2106.0	2086.2	2071.0
37.5°	6038.3	3473.5	1881.1	1794.5	1797.5	1764.1	1753.5	1840.1	2131.8	2054.3	2043.7
40°	6472.9	3430.9	1803.6	1710.9	1748.9	1744.3	1723.1	1767.1	1961.6	1820.3	1802.1
42.5°	7010.8	3437.0	1745.9	1621.3	1691.2	1739.8	1706.4	1707.9	1777.8	1671.4	1654.7
45°	7674.8	3508.4	1704.8	1549.8	1625.8	1735.2	1700.3	1676.0	1682.0	1625.8	1616.7
47.5°	8449.7	3655.8	1676.0	1490.6	1563.5	1718.5	1698.8	1666.8	1653.2	1622.8	1615.2
50°	9311.2	3870.1	1654.7	1434.4	1507.3	1691.2	1700.3	1657.7	1642.5	1630.4	1625.8
52.5°	10157.6	4114.7	1622.8	1385.7	1463.2	1657.7	1704.8	1648.6	1631.9	1622.8	1618.2
55°	11101.2	4420.1	1574.2	1344.7	1426.8	1615.2	1704.8	1634.9	1616.7	1618.2	1616.7
57.5°	12376.0	4913.9	1516.4	1309.8	1382.7	1563.5	1676.0	1619.7	1596.9	1598.5	1600.0
60°	14368.0	5784.6	1446.5	1274.8	1328.0	1502.7	1636.5	1586.3	1563.5	1569.6	1571.1
62.5°	17297.5	7062.4	1355.4	1223.2	1270.3	1437.4	1581.8	1543.8	1521.0	1536.2	1536.2
65°	20342.5	8189.9	1242.9	1157.8	1209.5	1366.0	1513.4	1490.6	1467.8	1502.7	1501.2
67.5°	21161.5	7937.6	1130.5	1086.4	1148.7	1287.0	1431.3	1419.2	1407.0	1467.8	1464.8
70°	18798.7	6372.6	1027.2	1013.5	1081.9	1201.9	1343.2	1343.2	1335.6	1381.2	1370.6
72.5°	14322.4	4518.9	928.4	936.0	1005.9	1109.2	1247.5	1258.1	1246.0	1268.7	1259.6
75°	7667.2	2586.1	829.6	850.9	911.7	1015.0	1141.1	1151.7	1144.2	1142.6	1147.2
77.5°	2548.1	1264.2	726.3	759.7	812.9	917.8	1030.2	1046.9	1028.7	1025.6	1024.1
80°	1135.0	794.7	612.3	656.4	703.5	806.8	913.2	926.9	907.1	934.5	899.5
82.5°	729.3	522.7	490.8	539.4	585.0	695.9	796.2	799.2	781.0	907.1	773.4
85°	354.0	323.6	369.2	413.3	452.8	547.0	659.4	661.0	615.4	560.7	540.9
87.5°	176.3	188.4	246.2	285.7	305.4	375.3	480.1	471.0	451.3	410.3	378.3
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)