

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: P192164

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192164
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-T2-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28227 lumens
Efficiency: N/A
Efficacy: 113.4 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

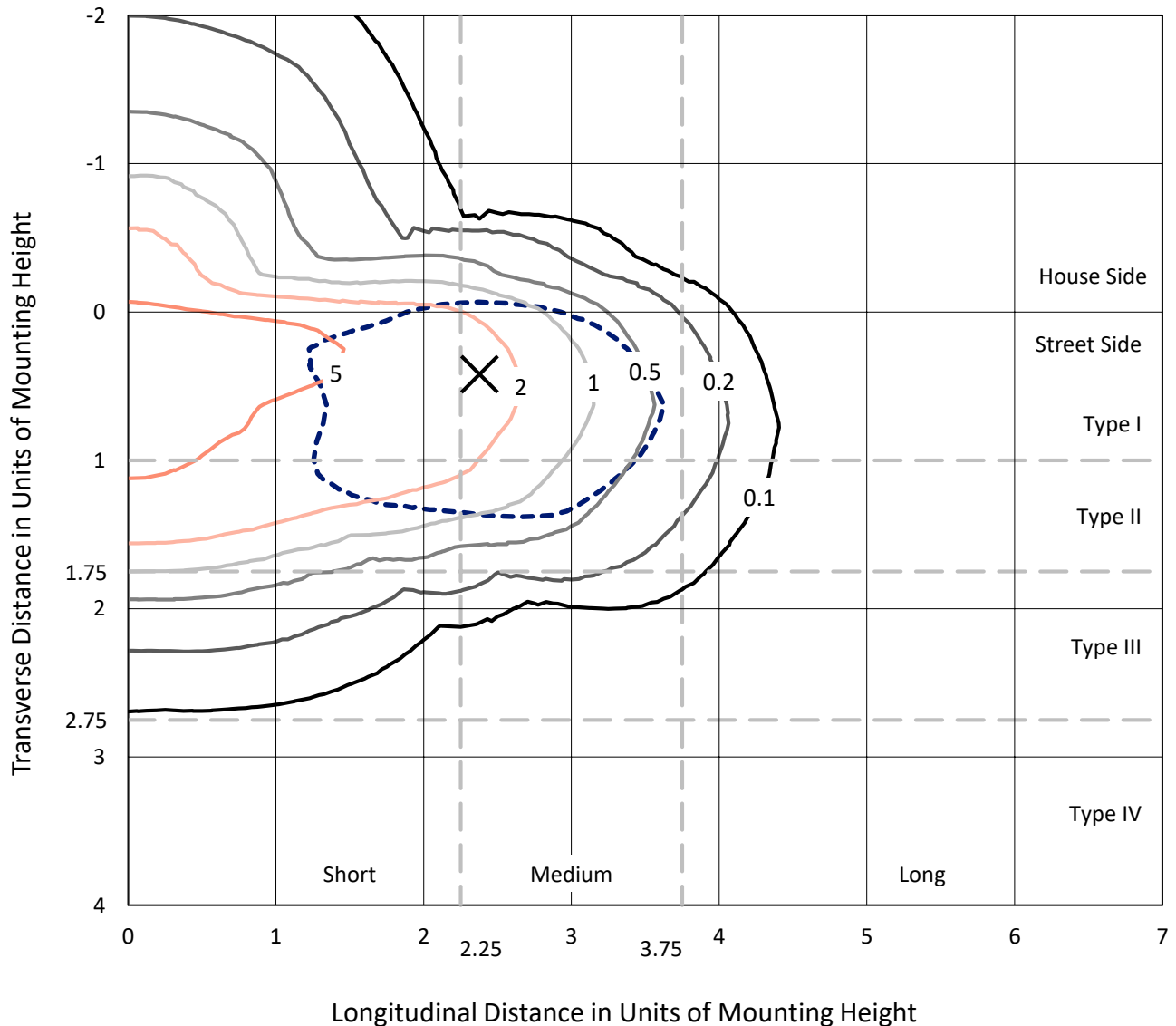


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Iso-Footcandle Lines of Horizontal Illumination

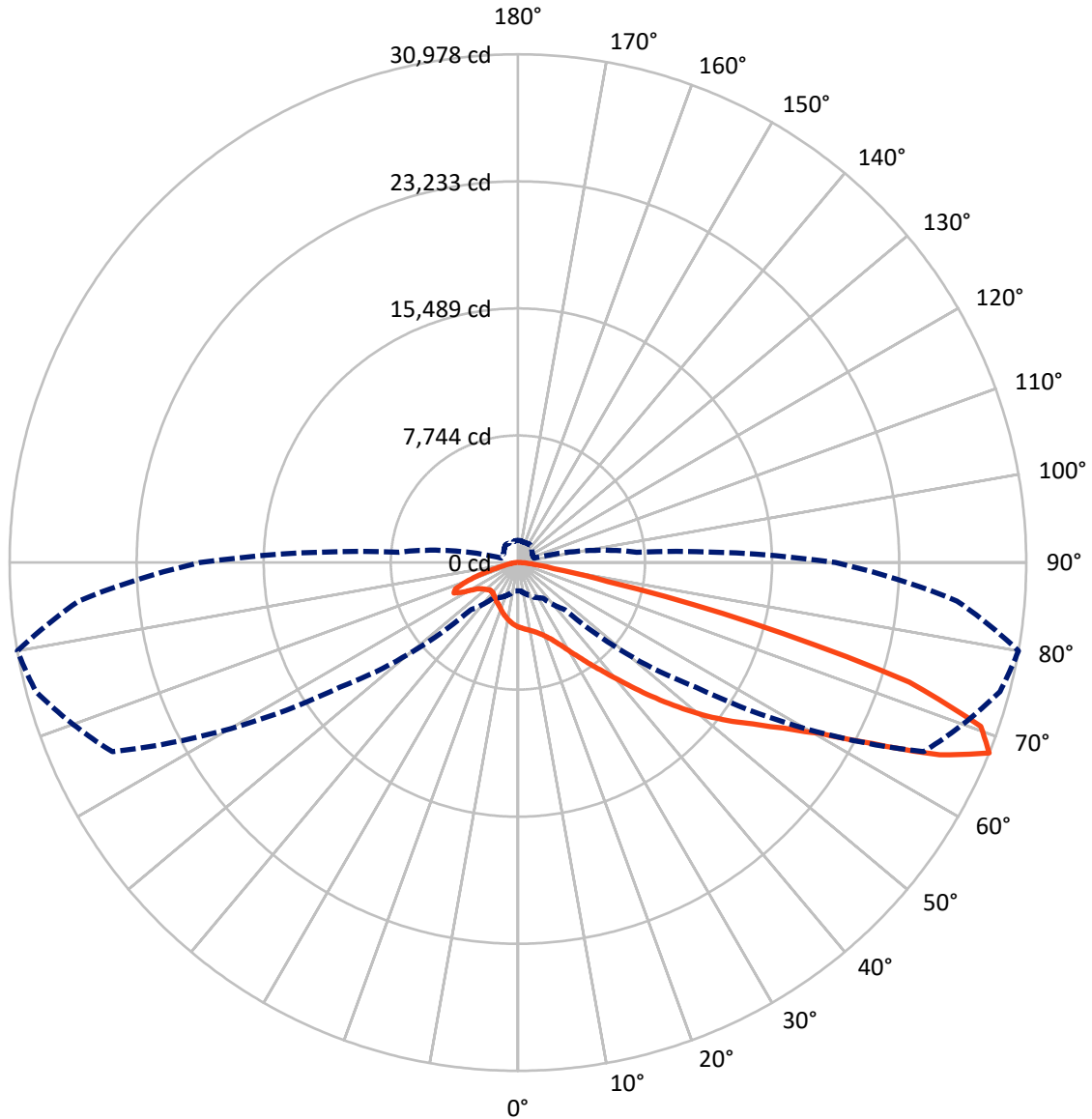
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	5198.3	0.0	5198.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	23028.7	0.0	23028.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	28227.0	0.0	28227.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.7	1.3
10°-20°	1042.1	3.7
20°-30°	1724.9	6.1
30°-40°	2821.4	10.0
40°-50°	4555.5	16.1
50°-60°	6576.8	23.3
60°-70°	7257.9	25.7
70°-80°	3345.5	11.9
80°-90°	541.1	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°	28227.0	100.0
0°-180°	28227.0	100.0



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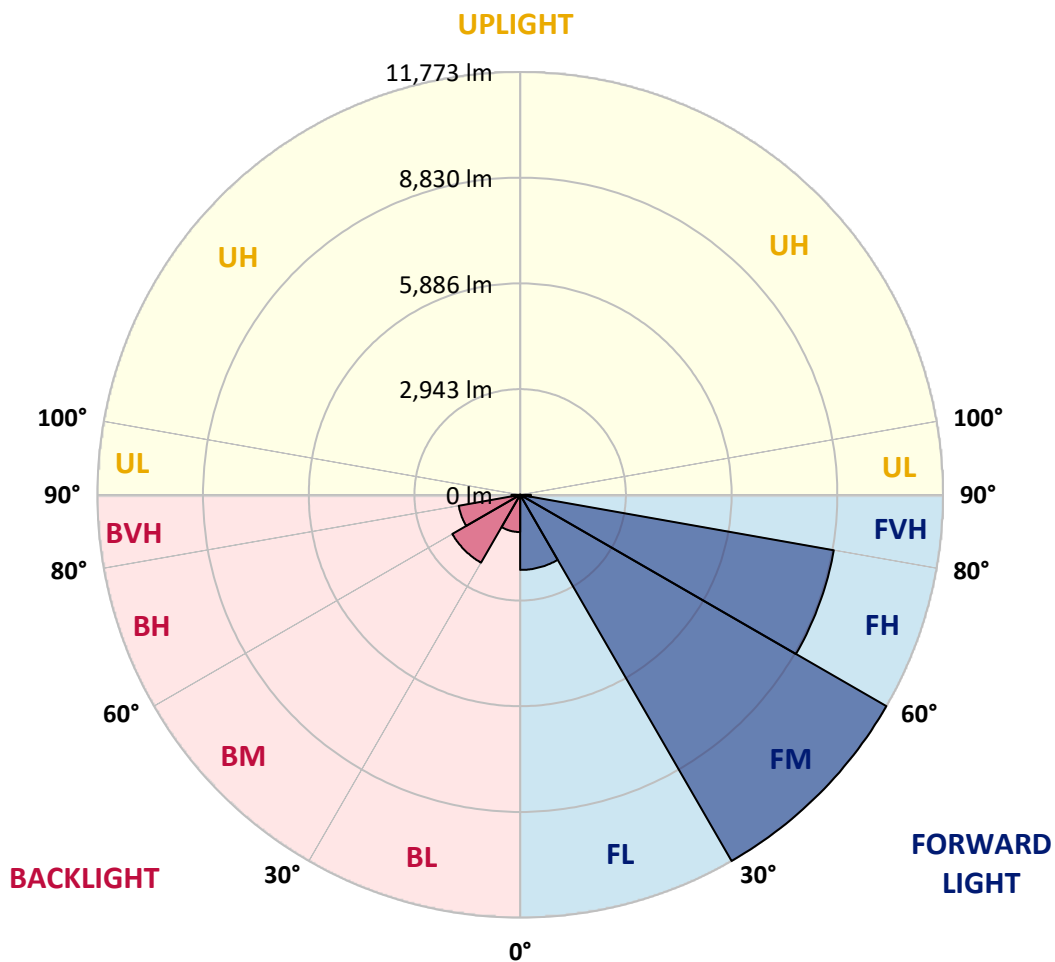
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2091.6	7.4			
FM (30°-60°)	11772.8	41.7			
FH (60°-80°)	8866.8	31.4			G4/12000
FVH (80°-90°)	297.5	1.1			G3/500
BL (0°-30°)	1037.1	3.7	B3/2500		
BM (30°-60°)	2181.0	7.7	B2/2500		
BH (60°-80°)	1736.6	6.2	B3/2500		G3/2500
BVH (80°-90°)	243.6	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°	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6
2.5°	4289.8	4264.8	4269.0	4262.0	4241.2	4205.0	4166.1	4095.3	4021.6	3982.7	3952.1
5°	4648.3	4641.4	4631.7	4609.4	4556.6	4481.6	4388.5	4263.4	4128.6	4057.7	3989.6
7.5°	4916.5	4912.4	4899.9	4886.0	4834.5	4744.2	4603.9	4426.0	4230.1	4132.8	4027.2
10°	4938.8	4945.7	4955.4	4993.0	4999.9	4951.3	4808.1	4592.7	4335.7	4210.6	4075.8
12.5°	4749.8	4765.1	4802.6	4898.5	4999.9	5059.7	4986.0	4767.8	4459.3	4307.9	4136.9
15°	4499.6	4508.0	4553.8	4685.9	4867.9	5052.7	5122.2	4961.0	4619.1	4432.9	4228.7
17.5°	4392.6	4396.8	4428.8	4516.3	4685.9	4949.9	5198.6	5170.8	4815.1	4588.6	4341.2
20°	4338.4	4348.2	4394.0	4480.2	4587.2	4817.9	5209.7	5397.3	5048.5	4783.1	4483.0
22.5°	4492.7	4488.5	4505.2	4548.3	4638.6	4777.6	5201.4	5630.8	5345.9	5033.3	4667.8
25°	4852.6	4867.9	4838.7	4790.1	4819.3	4916.5	5245.9	5883.7	5718.3	5354.3	4909.6
27.5°	5365.4	5350.1	5307.0	5193.1	5133.3	5175.0	5393.2	6156.1	6181.1	5776.7	5229.2
30°	5876.8	5864.3	5822.6	5683.6	5561.3	5526.6	5679.4	6468.8	6732.8	6283.9	5621.1
32.5°	6407.6	6393.7	6354.8	6215.8	6068.5	5987.9	6086.6	6830.1	7383.1	6889.8	6082.4
35°	7062.1	7035.7	6953.7	6760.6	6616.1	6553.5	6599.4	7284.5	8133.5	7606.9	6642.5
37.5°	7677.7	7718.0	7634.7	7367.8	7180.2	7158.0	7209.4	7838.9	8942.3	8408.7	7285.9
40°	8296.1	8303.1	8228.0	8009.9	7816.7	7780.6	7909.8	8511.5	9897.0	9367.5	8068.2
42.5°	8935.4	8949.3	8822.8	8621.3	8479.6	8486.5	8633.8	9299.4	10992.0	10497.3	8968.7
45°	9692.7	9713.6	9574.6	9310.6	9181.3	9441.2	9380.0	10183.2	12192.7	11781.3	10002.6
47.5°	10484.8	10516.8	10411.1	10163.8	10002.6	10359.7	10126.3	11162.9	13485.0	13158.5	11137.9
50°	10917.0	10962.8	11065.7	11047.6	11012.9	10953.1	10958.7	12213.5	14817.7	14592.6	12305.2
52.5°	10684.9	10683.5	11058.7	11514.5	12000.9	12037.0	11973.1	13321.0	16062.8	15994.7	13404.4
55°	9623.2	9695.5	10263.8	11146.3	12474.8	13304.4	13493.4	14589.8	17285.7	17364.9	14520.3
57.5°	7855.6	7915.4	8682.4	9912.3	11835.5	14057.6	15655.6	16433.8	18653.1	19022.7	16005.8
60°	5327.9	5400.1	6213.1	7690.2	10115.2	13637.9	17713.7	19724.5	20290.1	21130.8	18090.3
62.5°	3130.8	3196.2	3859.0	4851.2	7121.9	11688.2	18616.9	24406.2	22890.1	24311.7	21269.8
65°	2155.3	2199.8	2522.2	3019.7	4092.5	7872.3	17496.9	27638.5	26890.8	28252.7	24956.5
67.5°	1734.3	1728.7	1984.4	2323.5	2634.7	4059.1	13230.7	27273.0	30409.4	30977.8	26870.0
70°	1428.5	1423.0	1596.7	1877.4	2105.3	2286.0	7206.6	23015.1	29692.3	29923.0	25107.9
72.5°	1195.1	1200.6	1311.8	1520.3	1727.3	1721.8	3167.0	16190.6	23358.4	24953.7	20014.9
75°	1008.9	1011.7	1085.3	1232.6	1402.1	1386.9	1717.6	8771.4	13578.1	14688.4	11094.8
77.5°	858.8	861.6	908.8	990.8	1111.7	1106.1	1253.5	3789.5	5664.2	5594.7	3795.1
80°	765.7	765.7	787.9	803.2	869.9	844.9	929.7	1820.4	2394.3	2210.9	1514.7
82.5°	600.3	603.1	739.3	733.7	685.1	653.1	653.1	1072.8	1268.7	1172.9	886.6
85°	337.7	336.3	476.6	575.3	603.1	460.0	455.8	600.3	690.6	608.7	429.4
87.5°	144.5	147.3	221.0	255.7	341.9	286.3	282.1	309.9	351.6	304.3	198.7
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°	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6	3921.6
2.5°	3922.9	3886.8	3807.6	3708.9	3620.0	3561.6	3508.8	3432.4	3436.6	3383.8	3344.9
5°	3920.2	3845.1	3661.7	3443.5	3233.7	3082.2	2968.3	2865.4	2840.4	2791.8	2762.6
7.5°	3922.9	3800.7	3492.2	3143.4	2883.5	2691.7	2594.4	2540.3	2527.7	2511.1	2512.5
10°	3932.7	3760.4	3305.9	2862.6	2590.3	2463.8	2440.2	2456.9	2476.3	2481.9	2483.3
12.5°	3954.9	3724.2	3101.7	2612.5	2406.8	2367.9	2408.2	2465.2	2502.7	2520.8	2519.4
15°	4004.9	3696.4	2905.7	2416.6	2305.4	2326.2	2401.3	2481.9	2536.1	2561.1	2562.5
17.5°	4059.1	3656.1	2704.2	2266.5	2230.4	2283.2	2376.3	2470.8	2537.5	2565.3	2570.8
20°	4130.0	3606.1	2493.0	2153.9	2159.5	2219.2	2306.8	2401.3	2474.9	2498.6	2509.7
22.5°	4223.1	3551.9	2308.2	2062.2	2078.9	2124.8	2192.8	2274.8	2338.8	2349.9	2359.6
25°	4348.2	3493.5	2160.9	1978.8	1985.8	2012.2	2058.1	2106.7	2151.2	2138.6	2148.4
27.5°	4516.3	3443.5	2051.1	1902.4	1889.9	1895.5	1919.1	1934.4	1958.0	1923.3	1927.4
30°	4713.6	3389.3	1966.3	1835.7	1801.0	1791.2	1796.8	1805.1	1823.2	1776.0	1769.0
32.5°	4942.9	3324.0	1887.1	1777.3	1728.7	1709.3	1712.0	1734.3	1803.7	1774.6	1759.3
35°	5209.7	3250.4	1803.7	1713.4	1680.1	1652.3	1649.5	1719.0	1926.0	1908.0	1894.1
37.5°	5522.4	3176.7	1720.4	1641.2	1643.9	1613.4	1603.6	1682.8	1949.7	1878.8	1869.1
40°	5919.8	3137.8	1649.5	1564.7	1599.5	1595.3	1575.8	1616.1	1794.0	1664.8	1648.1
42.5°	6411.8	3143.4	1596.7	1482.7	1546.7	1591.1	1560.6	1562.0	1625.9	1528.6	1513.3
45°	7019.0	3208.7	1559.2	1417.4	1486.9	1587.0	1555.0	1532.8	1538.3	1486.9	1478.6
47.5°	7727.8	3343.5	1532.8	1363.2	1429.9	1571.7	1553.6	1524.4	1511.9	1484.1	1477.2
50°	8515.7	3539.4	1513.3	1311.8	1378.5	1546.7	1555.0	1516.1	1502.2	1491.1	1486.9
52.5°	9289.7	3763.1	1484.1	1267.3	1338.2	1516.1	1559.2	1507.8	1492.5	1484.1	1480.0
55°	10152.7	4042.4	1439.7	1229.8	1304.9	1477.2	1559.2	1495.2	1478.6	1480.0	1478.6
57.5°	11318.6	4494.1	1386.9	1197.9	1264.6	1429.9	1532.8	1481.4	1460.5	1461.9	1463.3
60°	13140.4	5290.3	1322.9	1165.9	1214.5	1374.3	1496.6	1450.8	1429.9	1435.5	1436.9
62.5°	15819.6	6459.0	1239.6	1118.7	1161.7	1314.6	1446.6	1411.9	1391.0	1404.9	1404.9
65°	18604.4	7490.1	1136.7	1058.9	1106.1	1249.3	1384.1	1363.2	1342.4	1374.3	1373.0
67.5°	19353.5	7259.5	1033.9	993.6	1050.6	1177.0	1309.0	1297.9	1286.8	1342.4	1339.6
70°	17192.6	5828.1	939.4	926.9	989.4	1099.2	1228.4	1228.4	1221.5	1263.2	1253.5
72.5°	13098.7	4132.8	849.1	856.0	919.9	1014.4	1140.9	1150.6	1139.5	1160.3	1152.0
75°	7012.1	2365.2	758.7	778.2	833.8	928.3	1043.6	1053.3	1046.4	1045.0	1049.2
77.5°	2330.4	1156.2	664.2	694.8	743.5	839.3	942.2	957.5	940.8	938.0	936.6
80°	1038.1	726.8	560.0	600.3	643.4	737.9	835.2	847.7	829.6	854.6	822.7
82.5°	667.0	478.0	448.9	493.3	535.0	636.5	728.2	730.9	714.3	829.6	707.3
85°	323.8	296.0	337.7	378.0	414.1	500.3	603.1	604.5	562.8	512.8	494.7
87.5°	161.2	172.3	225.1	261.3	279.3	343.2	439.1	430.8	412.7	375.2	346.0
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)