

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: P191766

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39542 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

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

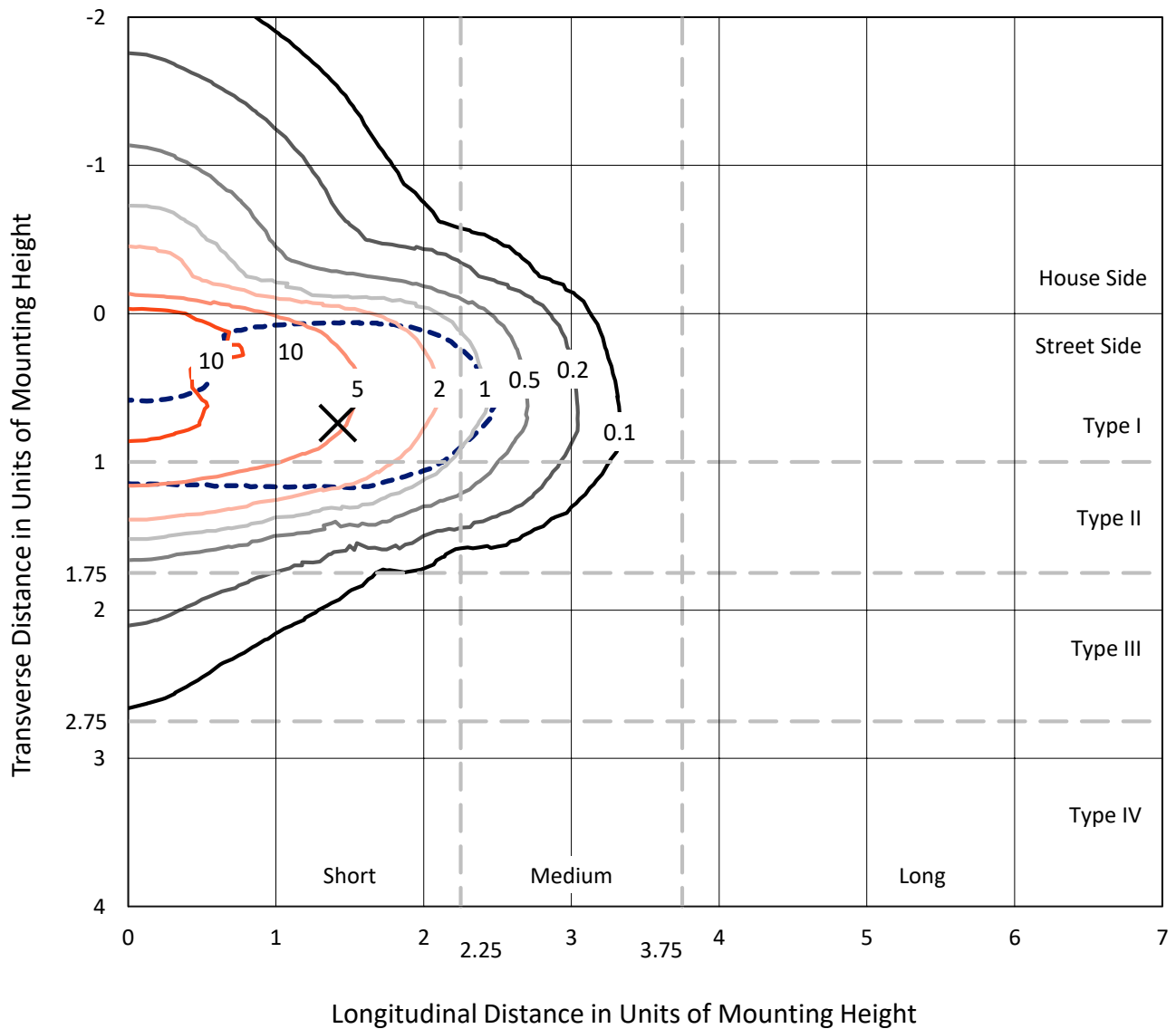


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Iso-Footcandle Lines of Horizontal Illumination

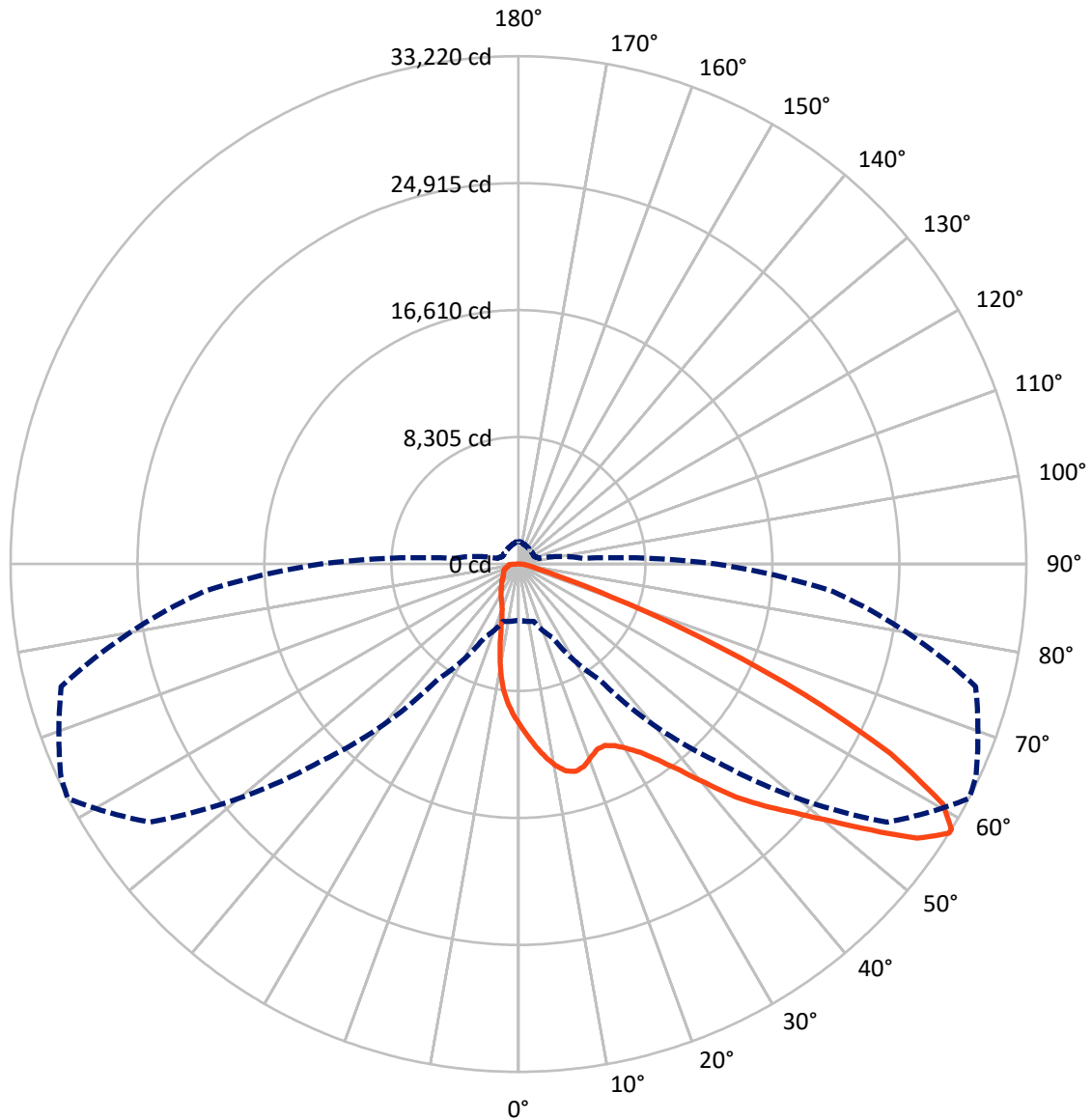
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6030.3	0.0	6030.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	33511.7	0.0	33511.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	39542.0	0.0	39542.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	939.4	2.4
10°-20°	2401.2	6.1
20°-30°	3881.6	9.8
30°-40°	6162.1	15.6
40°-50°	9016.4	22.8
50°-60°	9430.4	23.8
60°-70°	5571.5	14.1
70°-80°	1569.5	4.0
80°-90°	569.8	1.4
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°	39542.0	100.0
0°-180°	39542.0	100.0



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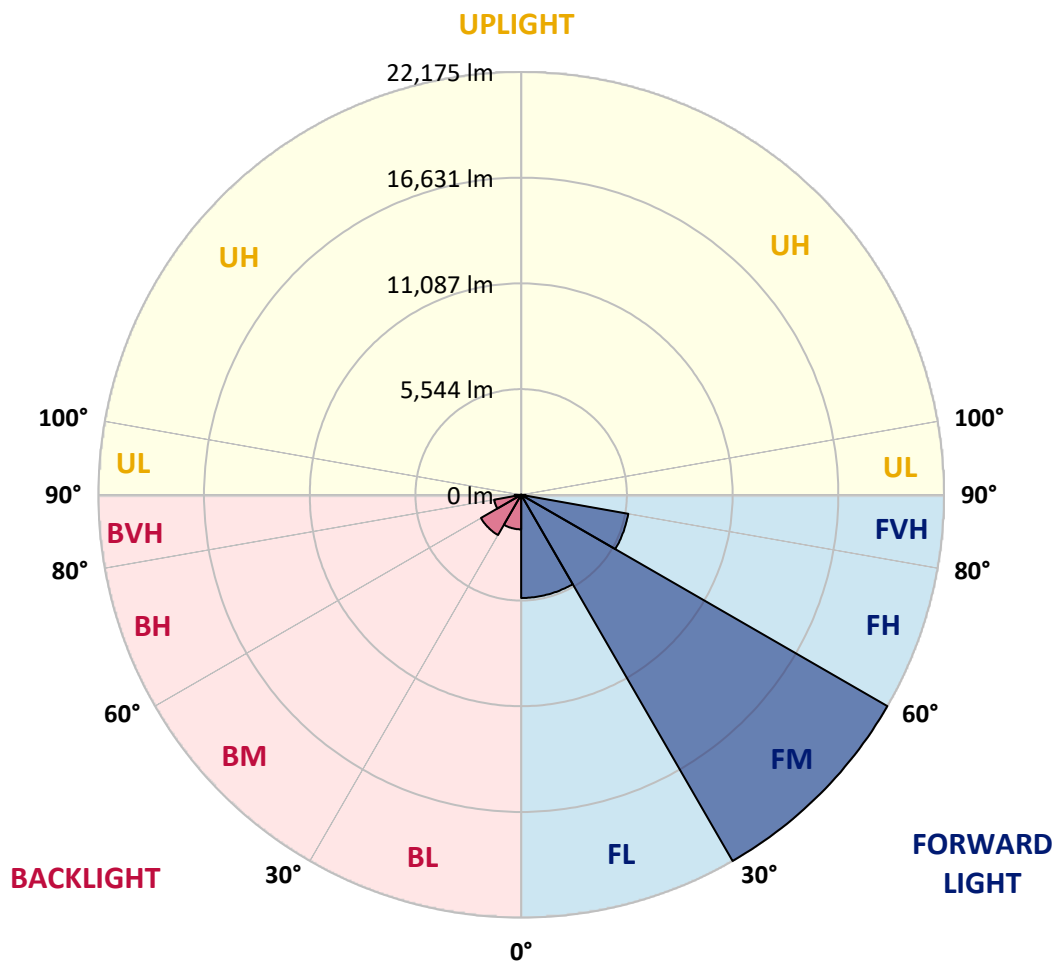
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5409.8	13.7			
FM (30°-60°)	22174.9	56.1			
FH (60°-80°)	5702.1	14.4			G3/7500
FVH (80°-90°)	224.8	0.6			G2/225
BL (0°-30°)	1812.4	4.6	B3/2500		
BM (30°-60°)	2434.0	6.2	B2/2500		
BH (60°-80°)	1438.9	3.6	B3/2500		G3/2500
BVH (80°-90°)	345.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5
2.5°	12002.4	11905.6	11844.2	11790.2	11719.4	11568.6	11365.6	11237.2	11172.0	10950.4	10687.9
5°	13179.2	13093.6	13030.3	12957.6	12831.0	12594.6	12266.8	12006.2	11877.7	11434.5	10909.4
7.5°	12903.6	12939.0	13048.9	13240.7	13404.5	13372.9	13080.5	12749.1	12579.7	11963.3	11166.4
10°	11242.7	11304.2	11494.1	11942.9	12669.0	13413.8	13641.0	13412.0	13240.7	12486.6	11430.8
12.5°	10909.4	10907.6	10922.5	11041.6	11473.6	12521.9	13659.6	13890.5	13788.1	12985.6	11700.8
15°	11045.4	11049.1	11037.9	11088.2	11222.3	11637.5	13089.8	14074.8	14147.5	13488.3	11980.1
17.5°	11402.9	11393.6	11350.7	11350.7	11399.1	11561.1	12419.5	13903.5	14238.7	13933.3	12225.9
20°	12002.4	11959.6	11846.0	11741.8	11689.6	11777.1	12143.9	13508.8	14080.4	14322.5	12428.8
22.5°	12728.6	12695.1	12510.8	12287.3	12106.7	12104.8	12285.5	13164.3	13806.7	14689.3	12600.1
25°	13667.1	13613.1	13339.3	12981.8	12665.3	12544.3	12594.6	13147.6	13657.8	15087.8	12752.8
27.5°	14769.4	14670.7	14346.7	13830.9	13365.4	13121.5	13048.9	13451.1	13793.7	15581.2	12965.1
30°	16106.3	15992.7	15577.5	14905.3	14248.0	13847.7	13693.1	13989.2	14244.3	16182.6	13305.8
32.5°	17627.5	17463.7	16983.3	16242.2	15378.2	14767.5	14516.1	14700.5	14903.4	16906.9	13732.2
35°	19729.7	19534.2	18839.7	17817.5	16841.8	16002.0	15599.8	15733.9	15931.2	17986.9	14348.6
37.5°	21163.5	21075.9	20614.2	19653.4	18592.0	17625.7	17003.8	17082.0	17193.7	19336.8	15138.0
40°	21150.4	21185.8	21195.1	21204.4	20482.0	19556.6	18888.1	18806.2	18783.8	20819.0	16035.5
42.5°	20091.0	20236.2	20705.4	21656.9	22096.3	21671.8	21059.2	20822.7	20705.4	22565.5	16987.0
45°	18469.2	18547.4	19426.2	21284.5	22923.0	23766.5	23302.9	22558.1	22345.8	24170.6	17776.5
47.5°	17633.1	17718.8	18271.8	20297.6	22913.7	25459.1	25727.2	24308.4	23928.5	25567.1	18458.0
50°	15642.6	15821.4	16517.8	18580.9	22077.7	26237.4	28261.4	26393.8	25608.0	26926.3	19141.3
52.5°	11987.5	12263.1	13043.3	15758.1	19956.9	25852.0	30289.1	28922.4	27812.7	28334.0	19727.9
55°	7561.6	7766.4	8421.8	11129.2	15964.8	23846.6	31058.1	31657.7	30670.8	29667.2	20236.2
57.5°	4111.3	4202.5	4448.3	6144.6	10384.4	19413.2	29937.2	33214.3	32804.7	30799.3	20619.8
58°	3679.3	3740.8	3893.4	5325.3	9209.4	18201.0	29440.0	33219.9	33015.1	30965.0	20649.6
60°	2729.7	2698.0	2562.1	3038.8	5126.1	12574.1	26434.8	31890.4	32491.9	31168.0	20504.3
62.5°	2398.3	2321.9	2044.5	2012.8	2493.2	5792.7	20226.9	27317.4	28738.1	30009.8	19621.7
65°	2253.0	2171.1	1813.6	1698.1	1798.7	2450.4	11914.9	20487.6	22269.5	26498.1	17365.0
67.5°	2145.0	2038.9	1666.5	1508.2	1515.7	1619.9	4776.0	12903.6	14909.0	20118.9	13506.9
70°	2040.7	1925.3	1541.7	1359.3	1316.4	1281.1	1899.2	6459.3	8278.4	12708.1	8611.7
72.5°	1929.0	1815.4	1431.9	1242.0	1158.2	1040.9	1240.1	2642.2	3690.5	6012.4	3906.5
75°	1767.0	1664.6	1322.0	1137.7	1018.5	862.1	936.6	1379.7	1655.3	2394.5	1882.5
77.5°	1567.8	1484.0	1199.1	1052.0	903.1	700.1	720.6	957.1	1061.3	1370.4	1119.1
80°	1126.5	1156.3	1066.9	945.9	804.4	567.9	553.0	698.2	754.1	880.7	728.0
82.5°	791.3	808.1	882.6	772.7	664.7	446.9	407.8	491.6	525.1	579.1	392.9
85°	545.6	526.9	605.1	538.1	480.4	297.9	279.3	333.3	353.8	359.4	203.0
87.5°	327.7	327.7	350.1	288.6	258.8	154.5	150.8	189.9	203.0	193.6	111.7
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°	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5
2.5°	10531.5	10399.3	10118.1	9892.8	9607.9	9311.8	9146.1	8969.2	8848.2	8760.7	8900.3
5°	10611.5	10341.5	9760.6	9209.4	8600.6	7967.5	7487.1	7040.2	6729.3	6535.6	6718.1
7.5°	10738.1	10322.9	9397.5	8455.3	7362.3	6308.4	5366.3	4776.0	4431.6	4262.1	4368.2
10°	10883.4	10293.1	8971.1	7433.1	5869.0	4541.4	3837.6	3599.2	3521.0	3489.4	3504.3
12.5°	11004.4	10229.8	8447.9	6196.7	4407.3	3586.2	3383.2	3377.7	3394.4	3398.1	3403.7
15°	11090.1	10136.7	7671.4	4908.2	3524.8	3267.8	3256.6	3290.1	3321.8	3334.8	3342.3
17.5°	11147.8	9944.9	6794.4	3880.4	3157.9	3113.3	3139.3	3182.2	3215.7	3225.0	3232.4
20°	11142.2	9663.8	5749.8	3236.2	2958.7	2958.7	3003.4	3036.9	3038.8	3027.6	3033.2
22.5°	11084.5	9278.3	4736.9	2893.5	2781.8	2813.5	2858.2	2826.5	2696.2	2610.5	2616.1
25°	10987.6	8818.4	3869.2	2675.7	2618.0	2673.8	2660.8	2422.5	2236.3	2152.5	2152.5
27.5°	10902.0	8274.7	3202.6	2485.8	2454.1	2523.0	2292.1	2076.1	1997.9	1958.8	1945.8
30°	10840.5	7688.2	2757.6	2303.3	2299.6	2249.3	1988.6	1929.0	1916.0	1884.3	1873.2
32.5°	10855.4	7094.2	2472.7	2143.2	2156.2	1925.3	1843.4	1856.4	1845.2	1811.7	1796.8
35°	10978.3	6530.0	2286.5	1997.9	1958.8	1739.1	1757.7	1781.9	1778.2	1731.7	1716.8
37.5°	11198.1	5995.6	2163.6	1876.9	1709.3	1646.0	1675.8	1713.0	1703.7	1672.1	1660.9
40°	11428.9	5492.9	2063.1	1781.9	1562.2	1582.7	1608.8	1629.2	1638.6	1647.9	1640.4
42.5°	11654.2	4967.8	1940.2	1685.1	1500.8	1523.1	1534.3	1554.8	1605.0	1640.4	1638.6
45°	11788.3	4474.4	1813.6	1547.3	1452.4	1465.4	1457.9	1498.9	1560.4	1618.1	1619.9
47.5°	11937.3	4090.8	1713.0	1420.7	1405.8	1415.1	1392.8	1433.7	1489.6	1560.4	1567.8
50°	12117.9	3861.8	1633.0	1320.2	1342.5	1342.5	1336.9	1374.2	1452.4	1534.3	1549.2
52.5°	12322.7	3817.1	1565.9	1247.5	1279.2	1277.3	1282.9	1338.8	1424.4	1504.5	1517.5
55°	12572.2	3938.1	1493.3	1193.5	1217.7	1225.2	1243.8	1307.1	1379.7	1471.0	1476.6
57.5°	12862.7	4183.9	1435.6	1150.7	1161.9	1186.1	1215.9	1273.6	1351.8	1452.4	1457.9
58°	12911.1	4236.0	1426.3	1147.0	1150.7	1178.6	1212.2	1268.0	1346.2	1456.1	1461.7
60°	12913.0	4409.2	1405.8	1130.2	1107.9	1154.4	1191.7	1247.5	1336.9	1469.1	1482.1
62.5°	12454.9	4407.3	1390.9	1106.0	1063.2	1120.9	1163.7	1228.9	1327.6	1500.8	1526.8
65°	10967.2	4005.2	1320.2	1068.8	1027.8	1091.1	1139.5	1215.9	1353.7	1638.6	1655.3
67.5°	8578.2	3282.7	1188.0	1016.7	981.3	1061.3	1124.6	1214.0	1381.6	1670.2	1681.4
70°	5671.6	2456.0	1042.7	957.1	932.9	1026.0	1132.1	1277.3	1349.9	1603.2	1573.4
72.5°	2943.8	1724.2	925.4	882.6	877.0	994.3	1240.1	1269.9	1318.3	1508.2	1471.0
75°	1545.5	1197.3	823.0	800.7	810.0	986.9	1463.5	1236.4	1277.3	1443.0	1513.8
77.5°	945.9	966.4	735.5	726.2	744.8	964.5	1461.7	1193.5	1217.7	1327.6	1405.8
80°	633.1	783.9	668.5	670.3	683.4	882.6	1312.7	1126.5	1145.1	1255.0	1335.1
82.5°	400.3	463.6	607.0	638.7	621.9	728.0	1115.3	1026.0	1052.0	1435.6	1517.5
85°	203.0	290.5	526.9	614.5	560.5	510.2	904.9	899.3	912.4	1035.3	1081.8
87.5°	93.1	160.1	411.5	536.3	422.7	318.4	657.3	666.6	718.7	735.5	735.5
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)