

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: P383289

Luminaire Tested: **GLEON-SA6A-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27050.3 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

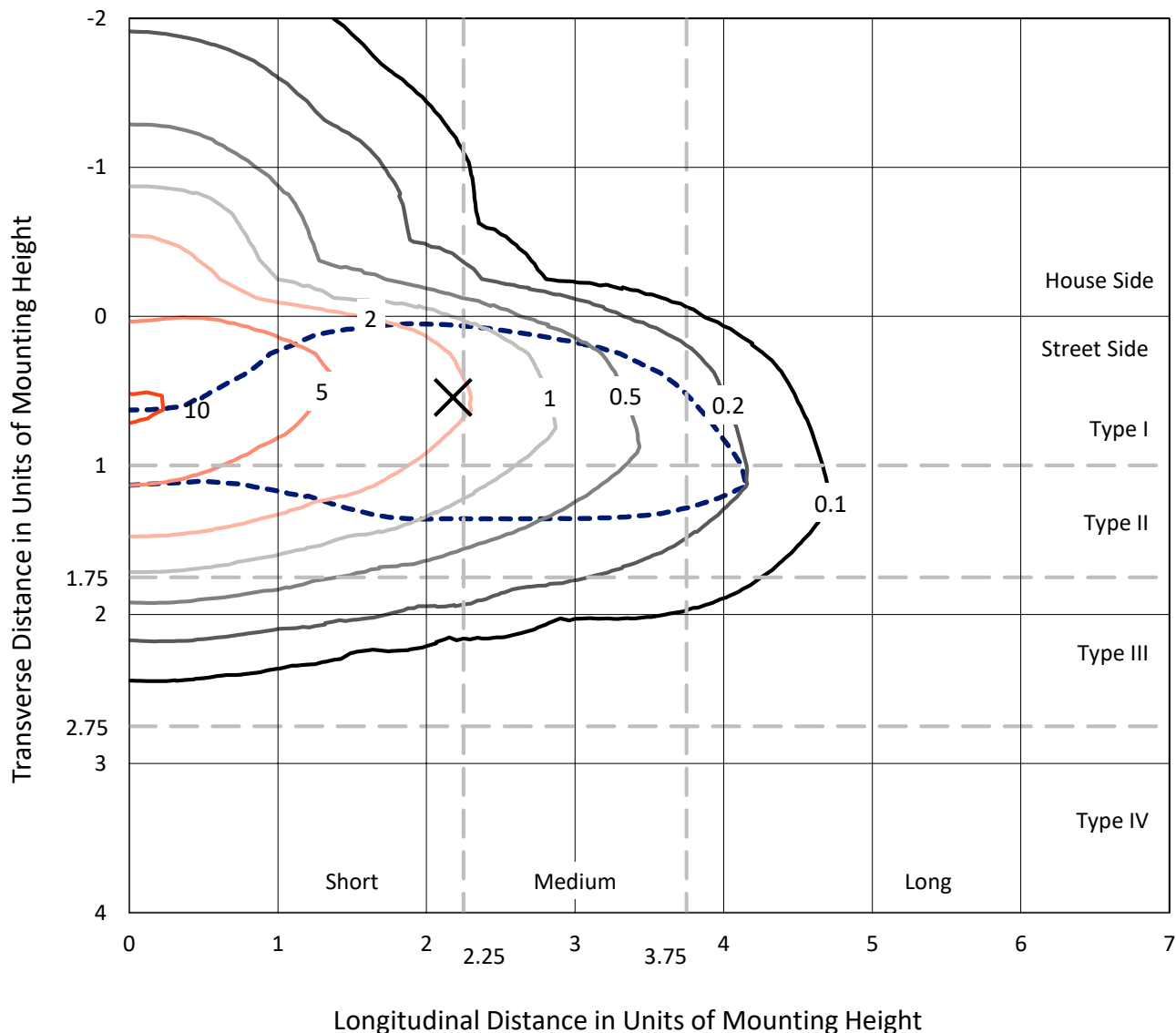
Input Watts (W): 193
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

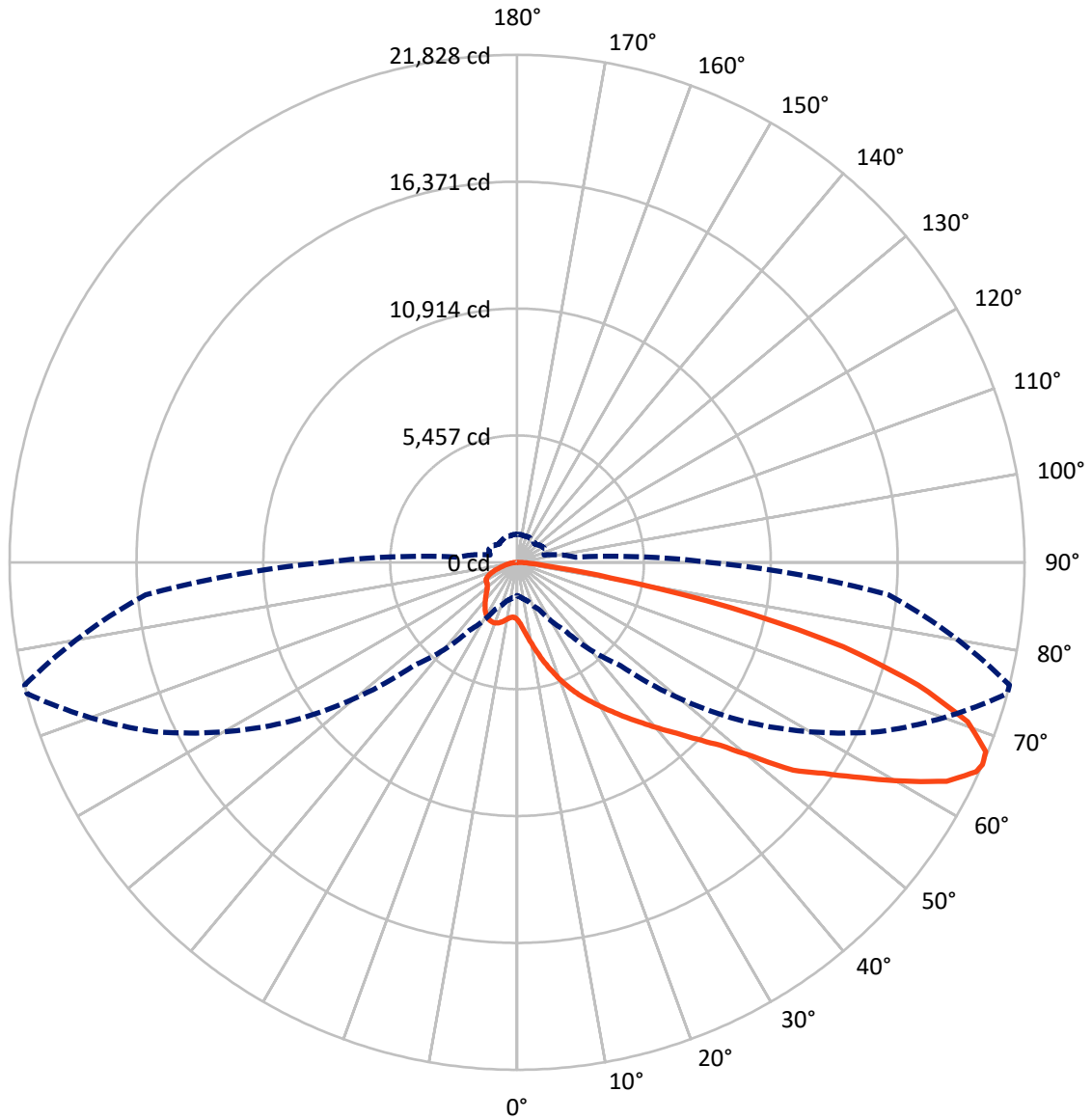
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4551.6	0.0	4551.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	22498.7	0.0	22498.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	27050.3	0.0	27050.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.7	1.1
10°-20°	1179.7	4.4
20°-30°	2292.3	8.5
30°-40°	3741.6	13.8
40°-50°	5112.0	18.9
50°-60°	5954.4	22.0
60°-70°	5338.2	19.7
70°-80°	2697.7	10.0
80°-90°	435.6	1.6
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°	27050.3	100.0
0°-180°	27050.3	100.0

Coefficient of Utilization



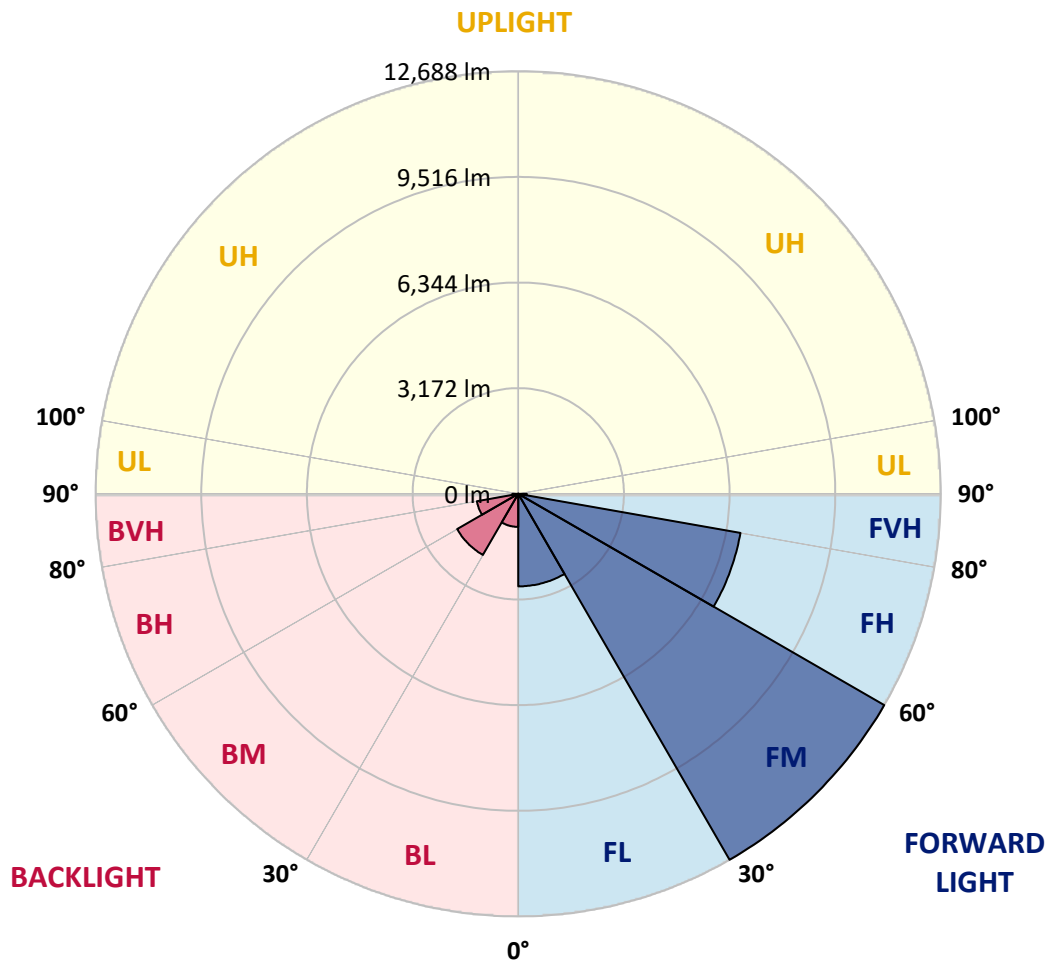
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2778.0	10.3			
FM (30°-60°)	12688.5	46.9			
FH (60°-80°)	6774.9	25.0			G3/7500
FVH (80°-90°)	257.3	1.0			G3/500
BL (0°-30°)	992.7	3.7	B2/1000		
BM (30°-60°)	2119.5	7.8	B2/2500		
BH (60°-80°)	1261.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	178.4	0.7			G2/225
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°	65°	75°	76°	85°
0°	2470.3	2470.3	2470.3	2470.3	2470.3	2470.3	2470.3	2470.3	2470.3	2470.3	2470.3
2.5°	3279.3	3229.8	3225.2	3152.6	3136.1	2997.4	2895.5	2789.0	2667.8	2643.8	2548.3
5°	4212.4	4207.8	4144.5	4026.0	3933.2	3696.3	3462.1	3214.1	2942.3	2898.2	2683.3
7.5°	5051.7	5044.3	4995.7	4868.1	4733.9	4442.8	4108.6	3728.4	3287.6	3222.4	2866.1
10°	5689.1	5686.3	5669.8	5576.1	5462.2	5183.0	4813.9	4295.0	3688.9	3599.9	3094.8
12.5°	6181.3	6186.8	6197.8	6164.7	6110.6	5872.7	5494.4	4895.6	4116.9	4028.7	3349.1
15°	6514.6	6531.2	6588.1	6634.9	6663.4	6517.4	6150.9	5509.9	4596.3	4490.6	3631.1
17.5°	6682.6	6701.0	6799.3	6940.7	7071.1	7056.5	6765.3	6095.9	5056.3	4954.3	3934.1
20°	6827.8	6841.6	6951.8	7121.6	7352.1	7454.1	7290.6	6659.7	5560.5	5439.2	4255.5
22.5°	7248.4	7265.8	7298.9	7395.3	7599.2	7786.5	7707.5	7193.2	6022.4	5909.5	4560.4
25°	8060.1	8081.3	8009.6	7927.9	7966.5	8096.9	8111.5	7680.0	6490.7	6363.1	4888.3
27.5°	9038.2	9068.5	8946.3	8736.1	8552.4	8501.9	8484.4	8078.6	6938.0	6790.1	5212.4
30°	9996.0	10048.3	9889.5	9616.7	9279.7	9042.8	8867.4	8468.8	7378.8	7237.4	5518.2
32.5°	10931.8	10910.7	10680.2	10413.9	10019.0	9722.4	9298.1	8887.6	7874.7	7712.1	5822.2
35°	11572.8	11580.1	11366.1	11050.2	10673.7	10446.0	9874.8	9339.4	8380.7	8231.0	6167.5
37.5°	12118.2	12084.3	11841.8	11547.1	11222.9	11125.6	10549.8	9837.1	8928.9	8765.4	6534.8
40°	12300.1	12260.6	12101.7	11889.6	11629.7	11621.4	11294.5	10401.0	9548.7	9387.1	6949.0
42.5°	12189.9	12139.4	12074.2	12016.3	11936.4	11973.2	11994.2	11062.1	10230.2	10049.3	7428.3
45°	11783.1	11706.9	11752.8	11878.5	12052.1	12259.6	12626.1	11794.0	10993.3	10841.8	7991.3
47.5°	11157.7	11088.8	11232.0	11501.2	11973.2	12498.5	13223.9	12602.2	11904.2	11753.7	8793.0
50°	10278.0	10298.2	10502.9	10992.4	11705.9	12608.6	13960.5	13672.0	13228.5	13088.0	9886.7
52.5°	8834.3	8838.0	9414.7	10218.2	11232.0	12551.7	14369.0	15039.5	15036.7	14866.8	10928.1
55°	7493.6	7575.3	8031.7	9099.7	10464.4	12323.9	14654.6	15704.3	16224.1	16024.9	11898.8
57.5°	6184.0	6231.8	6664.3	7736.9	9368.8	11716.9	14947.6	16502.4	17592.4	17466.6	13105.5
60°	4694.5	4767.9	5215.2	6206.1	7967.4	10639.8	14975.2	17335.3	19228.0	19101.2	14452.7
62.5°	3047.0	3173.8	3592.5	4520.9	6272.2	9090.5	14336.1	17879.8	20778.1	20733.1	15648.3
65°	1751.2	1846.8	2137.9	2854.2	4327.1	7145.5	12816.1	17670.4	21732.3	21706.5	16095.6
66°	1430.8	1490.5	1713.6	2230.6	3570.4	6274.9	11932.8	17228.7	21826.8	21827.7	16044.1
67.5°	1144.2	1170.9	1271.0	1597.0	2634.7	4973.6	10354.2	16254.4	21709.3	21741.4	15712.6
70°	946.8	960.6	991.8	1070.8	1438.1	2999.2	7349.4	13722.5	20529.2	20554.0	14418.7
72.5°	849.5	857.7	869.7	880.7	1014.7	1675.9	4488.8	10977.7	17999.2	18031.3	12447.0
75°	769.6	774.1	772.3	773.3	851.2	1068.0	2319.7	8196.0	14553.7	14489.4	9534.9
77.5°	675.9	680.5	671.3	673.1	753.1	821.0	1154.4	5737.7	9821.5	9367.8	5372.2
80°	571.2	574.9	571.2	577.7	655.7	619.9	671.3	3227.9	4342.8	4107.7	1910.1
82.5°	431.6	447.2	458.2	483.9	540.0	440.8	449.1	1257.2	1322.4	1259.0	585.9
85°	189.2	230.5	345.3	370.1	405.9	264.5	294.7	512.4	538.2	521.6	213.0
87.5°	49.6	54.2	170.8	214.9	225.0	119.4	153.3	233.3	246.1	233.3	70.7
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°	2470.3	2470.3	2470.3	2470.3	2470.3	2470.3	2470.3	2470.3	2470.3	2470.3	2470.3
2.5°	2497.9	2452.9	2372.0	2300.4	2246.2	2209.5	2172.7	2154.4	2143.4	2132.3	2134.2
5°	2577.8	2486.9	2348.2	2249.9	2194.8	2159.9	2141.5	2134.2	2129.6	2118.6	2118.6
7.5°	2698.0	2569.5	2378.4	2277.4	2234.3	2207.7	2196.7	2193.0	2187.5	2174.6	2176.5
10°	2849.6	2669.5	2441.9	2343.6	2304.1	2274.7	2259.1	2253.6	2243.4	2228.8	2230.6
12.5°	3027.7	2793.5	2525.4	2422.6	2374.8	2335.3	2309.6	2293.9	2276.5	2257.2	2258.2
15°	3222.4	2928.5	2615.4	2493.3	2428.1	2372.9	2331.7	2305.0	2277.4	2253.6	2252.7
17.5°	3419.9	3058.9	2684.3	2531.9	2443.6	2371.2	2315.1	2273.8	2239.8	2210.4	2207.7
20°	3632.9	3176.5	2722.8	2528.1	2414.3	2327.9	2253.6	2202.2	2164.5	2135.1	2130.5
22.5°	3849.6	3286.7	2729.2	2490.5	2349.1	2243.4	2165.4	2108.5	2069.9	2039.6	2028.6
25°	4047.9	3372.1	2702.6	2417.9	2258.2	2144.3	2068.0	2010.2	1979.0	1943.2	1932.1
27.5°	4228.9	3431.8	2649.4	2325.2	2156.3	2044.2	1972.6	1923.0	1889.0	1861.4	1852.3
30°	4391.4	3464.0	2562.1	2215.0	2051.5	1949.6	1889.0	1855.0	1825.6	1790.7	1784.3
32.5°	4545.8	3464.0	2450.1	2094.7	1947.8	1866.1	1830.2	1809.1	1776.1	1742.1	1732.9
35°	4700.0	3442.8	2317.9	1968.9	1852.3	1806.4	1804.5	1779.7	1729.2	1683.3	1671.4
37.5°	4862.6	3399.7	2169.1	1851.4	1774.2	1779.7	1795.4	1740.2	1668.6	1603.4	1586.0
40°	5046.2	3340.0	2014.8	1749.4	1709.0	1767.8	1770.5	1683.3	1543.7	1484.0	1468.4
42.5°	5262.0	3280.3	1871.6	1659.5	1657.6	1731.9	1723.7	1560.2	1476.7	1446.3	1438.1
45°	5545.8	3246.3	1735.7	1574.0	1617.2	1674.1	1643.8	1492.2	1457.4	1439.9	1432.6
47.5°	5993.0	3263.8	1610.7	1506.0	1576.7	1616.2	1495.0	1464.8	1439.9	1418.8	1411.5
50°	6553.2	3253.6	1509.8	1459.2	1530.8	1555.7	1428.0	1428.9	1416.0	1392.2	1381.2
52.5°	6974.7	3174.6	1444.6	1432.6	1490.5	1448.2	1385.8	1394.1	1387.6	1352.7	1340.8
55°	7381.5	3106.7	1411.5	1422.5	1461.0	1314.1	1336.2	1356.3	1349.9	1316.0	1310.4
57.5°	7887.5	3093.9	1391.3	1425.3	1436.3	1247.1	1288.4	1315.1	1310.4	1295.8	1293.0
60°	8507.4	3097.5	1372.9	1429.8	1408.7	1197.5	1243.4	1277.4	1280.1	1277.4	1275.6
62.5°	8848.1	2997.4	1327.0	1417.0	1360.1	1154.4	1196.6	1246.1	1247.1	1252.6	1251.7
65°	8558.8	2698.0	1241.6	1372.0	1278.3	1118.5	1156.1	1210.4	1196.6	1221.4	1221.4
66°	8277.8	2525.4	1199.4	1342.6	1243.4	1104.7	1143.3	1192.0	1174.5	1208.5	1208.5
67.5°	7703.8	2234.3	1123.1	1280.1	1193.9	1085.4	1128.7	1161.6	1137.8	1188.3	1184.6
70°	6655.2	1728.3	969.7	1138.7	1112.1	1057.0	1108.4	1101.1	1066.2	1143.3	1128.7
72.5°	5611.0	1313.2	778.8	953.3	988.1	1021.2	1079.9	1024.0	979.9	1034.0	1001.9
75°	4353.8	987.2	615.3	741.0	834.8	965.2	1045.9	934.9	871.5	866.0	848.5
77.5°	2353.6	677.7	487.7	565.7	663.1	895.4	1023.0	839.3	743.8	721.8	708.1
80°	932.1	440.8	354.5	428.9	463.7	794.3	967.9	728.2	613.4	591.4	570.3
82.5°	384.8	260.8	228.7	287.5	302.1	679.6	868.8	596.9	473.9	655.7	696.1
85°	165.3	143.3	135.9	148.8	170.8	476.6	691.5	455.5	511.5	456.4	362.7
87.5°	49.6	60.6	57.8	56.9	62.4	113.8	368.2	253.5	375.6	142.3	106.6
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)