

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: P382843

Luminaire Tested: **GLEON-SA2A-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8884.2 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

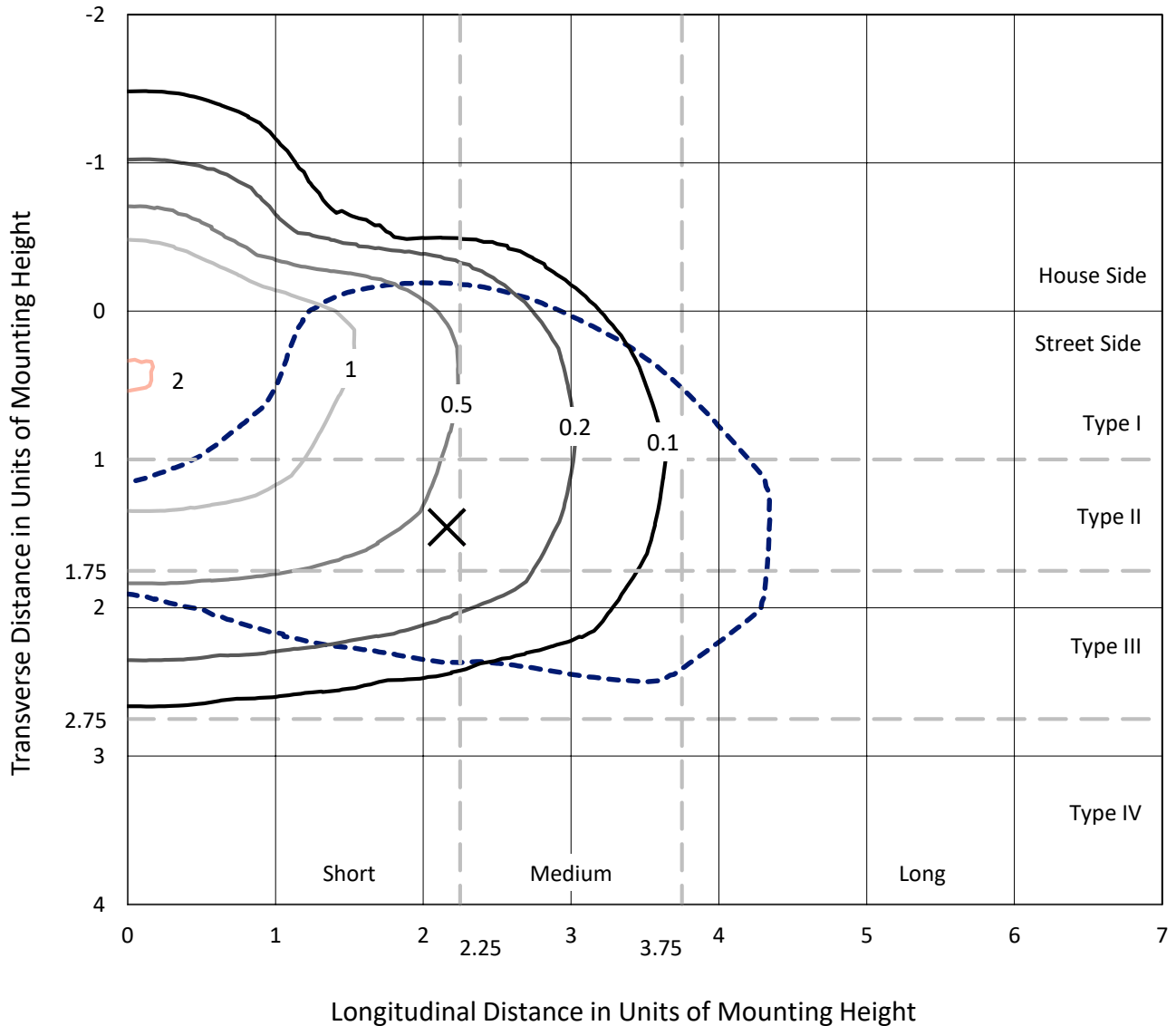
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

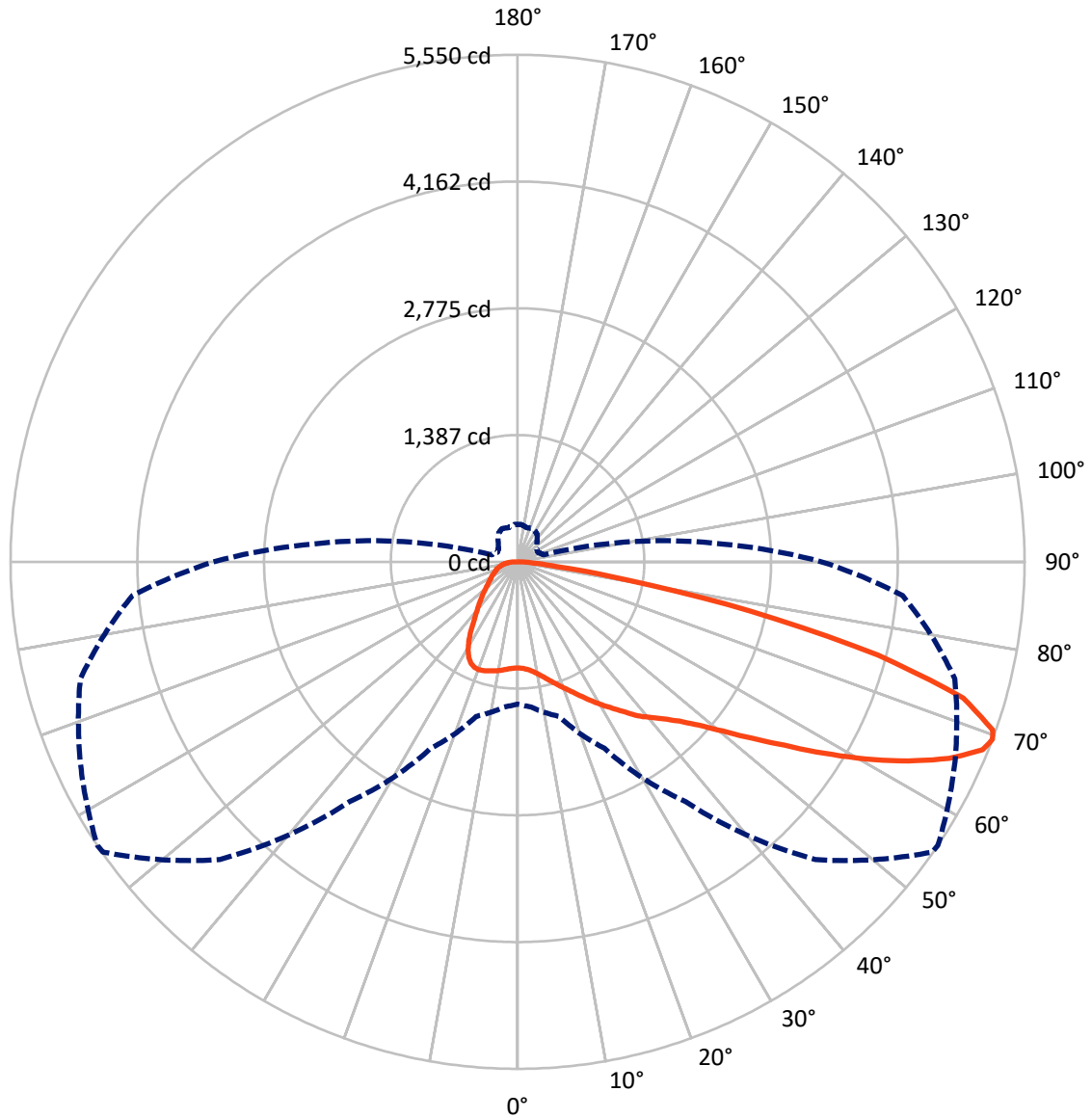
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1978.5	0.0	1978.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	6905.7	0.0	6905.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	8884.2	0.0	8884.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	1.3
10°-20°	366.8	4.1
20°-30°	640.3	7.2
30°-40°	919.8	10.4
40°-50°	1273.0	14.3
50°-60°	1865.1	21.0
60°-70°	2273.9	25.6
70°-80°	1257.1	14.2
80°-90°	174.1	2.0
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°	8884.2	100.0
0°-180°	8884.2	100.0

Coefficient of Utilization



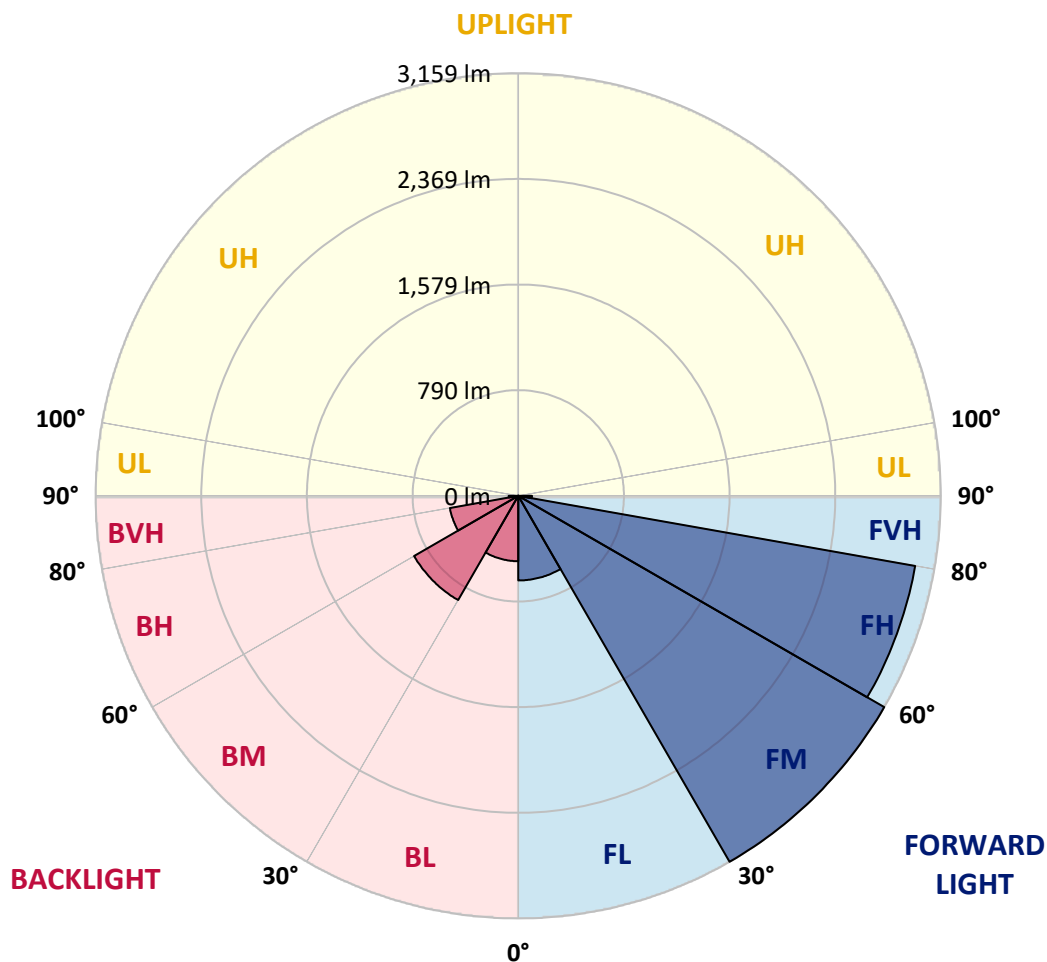
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	632.3	7.1			
FM (30°-60°)	3158.7	35.6			
FH (60°-80°)	3012.2	33.9			G2/5000
FVH (80°-90°)	102.6	1.2			G2/225
BL (0°-30°)	488.9	5.5	B1/500		
BM (30°-60°)	899.2	10.1	B1/1000		
BH (60°-80°)	518.8	5.8	B2/1000		G2/1000
BVH (80°-90°)	71.6	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5
2.5°	1168.8	1170.0	1169.1	1171.6	1168.8	1170.7	1169.1	1169.1	1168.2	1165.5	1162.4
5°	1187.2	1189.6	1188.1	1190.5	1187.2	1187.8	1185.0	1185.0	1182.3	1176.5	1170.3
7.5°	1215.9	1218.7	1217.4	1220.0	1215.3	1215.3	1211.7	1211.4	1205.9	1196.4	1189.3
10°	1250.2	1253.9	1252.7	1256.4	1252.7	1253.9	1250.2	1250.2	1242.9	1229.5	1220.5
12.5°	1300.1	1304.7	1301.4	1301.0	1299.5	1301.9	1298.9	1298.3	1291.5	1273.1	1260.9
15°	1366.9	1371.7	1364.7	1364.1	1355.5	1354.6	1354.6	1353.6	1349.3	1327.4	1307.1
17.5°	1443.6	1445.2	1439.1	1429.3	1418.3	1411.2	1410.3	1412.8	1412.8	1387.1	1354.9
20°	1519.0	1521.7	1516.8	1505.8	1491.7	1481.3	1474.0	1478.8	1478.6	1447.9	1402.4
22.5°	1601.0	1607.4	1600.0	1586.0	1569.5	1557.8	1545.0	1549.3	1549.5	1511.9	1448.8
25°	1707.2	1701.4	1696.7	1676.9	1653.3	1641.4	1629.5	1633.7	1632.4	1580.7	1496.9
27.5°	1801.1	1802.4	1796.2	1775.1	1747.9	1721.6	1720.9	1723.7	1719.1	1652.4	1542.2
30°	1910.4	1911.0	1902.4	1883.5	1853.8	1819.8	1811.9	1816.4	1806.6	1720.3	1590.0
32.5°	2019.0	2022.1	2012.6	1989.7	1965.8	1924.5	1908.6	1911.6	1887.1	1789.8	1639.2
35°	2114.2	2118.5	2115.5	2100.2	2074.1	2038.6	2019.7	2017.8	1987.5	1874.9	1704.5
37.5°	2211.2	2215.2	2211.9	2199.0	2188.6	2150.9	2140.9	2140.9	2088.2	1961.8	1787.4
40°	2311.0	2317.1	2313.1	2295.4	2286.5	2269.3	2245.2	2239.3	2182.4	2066.2	1922.6
42.5°	2403.8	2411.7	2427.6	2417.2	2399.1	2401.6	2352.9	2349.9	2308.3	2220.4	2092.4
45°	2535.3	2546.9	2573.9	2565.9	2562.3	2548.8	2491.0	2488.3	2472.3	2427.9	2303.3
47.5°	2678.9	2694.8	2743.5	2745.0	2784.5	2759.1	2680.4	2670.9	2674.6	2676.4	2560.7
50°	2811.1	2828.6	2908.4	2946.1	3039.1	3044.6	2918.8	2910.2	2924.7	2966.9	2860.7
52.5°	2916.7	2938.8	3038.5	3154.8	3314.3	3359.5	3212.3	3205.9	3216.6	3289.5	3199.8
55°	2994.1	3018.0	3126.6	3338.4	3593.1	3672.9	3550.2	3544.1	3550.9	3643.6	3568.6
57.5°	3012.2	3018.0	3175.6	3462.1	3828.4	4020.3	3963.7	3951.4	3918.4	3999.2	3975.7
60°	2927.4	2950.7	3135.2	3505.5	4010.5	4362.8	4395.9	4380.5	4287.8	4353.9	4335.0
62.5°	2755.4	2797.1	2984.3	3439.5	4081.9	4642.6	4819.7	4801.4	4641.6	4684.5	4593.3
65°	2474.5	2492.2	2689.0	3211.4	3991.2	4821.6	5197.7	5188.5	4987.4	4920.4	4641.0
67.5°	1971.9	2005.2	2172.4	2734.9	3620.6	4800.5	5490.0	5489.1	5213.3	5007.9	4471.7
69°	1557.8	1592.4	1751.5	2252.9	3203.8	4607.3	5539.0	5549.7	5276.9	4954.7	4230.0
70°	1241.9	1282.1	1391.4	1897.6	2833.8	4352.7	5498.3	5517.6	5264.7	4866.9	4006.9
72.5°	528.6	561.0	638.8	978.1	1727.1	3250.3	5027.2	5100.0	4981.0	4454.3	3311.5
75°	230.7	240.9	276.0	398.8	766.7	1769.0	3938.3	4072.9	4259.0	3765.0	2466.8
77.5°	169.0	173.3	192.6	234.1	344.0	668.1	2532.6	2610.9	3071.6	2739.8	1513.1
80°	130.7	133.8	148.8	172.0	224.7	270.2	1155.0	1222.4	1727.1	1407.2	630.2
82.5°	104.1	106.2	116.6	126.7	155.2	163.8	383.5	425.4	637.6	388.6	166.8
85°	96.7	99.1	102.8	92.4	99.5	96.1	165.9	173.5	192.6	152.7	69.8
87.5°	43.8	51.7	101.9	71.9	52.9	42.2	67.9	71.0	79.8	80.2	30.9
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°	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5
2.5°	1164.2	1163.3	1164.8	1161.2	1165.7	1165.5	1163.9	1164.5	1167.6	1167.3	1167.6
5°	1171.2	1170.7	1172.4	1169.7	1175.2	1177.1	1177.4	1180.2	1183.5	1184.5	1184.5
7.5°	1189.0	1189.0	1190.0	1186.2	1190.0	1189.6	1188.1	1190.9	1194.2	1194.5	1194.2
10°	1219.6	1220.0	1218.4	1208.9	1205.9	1197.6	1190.0	1190.2	1194.5	1197.9	1198.8
12.5°	1258.1	1256.9	1250.2	1232.8	1220.0	1203.1	1195.2	1194.8	1199.1	1201.9	1202.8
15°	1302.2	1298.9	1281.4	1253.0	1230.3	1213.8	1201.0	1197.9	1195.5	1192.4	1192.7
17.5°	1343.9	1336.2	1307.1	1267.6	1243.8	1221.7	1196.9	1177.1	1163.3	1155.3	1152.9
20°	1386.1	1371.1	1329.2	1281.4	1251.2	1211.0	1163.3	1122.9	1097.8	1086.2	1084.0
22.5°	1424.7	1400.5	1349.7	1295.8	1245.3	1175.0	1100.0	1041.2	1006.3	990.7	991.9
25°	1462.3	1428.6	1371.1	1305.9	1215.9	1111.2	1011.8	939.6	899.2	881.7	881.2
27.5°	1495.4	1457.1	1394.3	1297.6	1161.2	1020.7	907.4	837.1	803.4	788.4	785.9
30°	1533.3	1492.9	1425.3	1266.2	1081.0	916.0	805.5	756.0	732.1	717.1	714.3
32.5°	1579.5	1541.6	1450.7	1208.9	978.5	806.7	726.0	691.4	669.7	652.8	649.8
35°	1646.9	1605.9	1457.1	1126.9	865.8	720.5	667.5	632.0	602.6	580.9	578.8
37.5°	1731.4	1686.4	1442.4	1020.7	756.6	664.5	618.8	575.0	536.9	506.2	501.4
40°	1853.1	1785.2	1401.7	898.3	676.1	621.2	571.4	521.5	474.1	438.3	431.2
42.5°	1999.5	1901.2	1339.3	776.4	617.0	577.6	524.3	462.4	417.1	391.7	388.1
45°	2185.5	2021.8	1252.7	670.0	558.8	533.8	473.5	416.5	388.4	369.7	366.7
47.5°	2397.9	2157.1	1161.7	583.3	509.6	492.8	432.8	396.0	373.7	359.0	356.2
50°	2659.0	2309.8	1065.4	512.4	460.0	443.5	413.5	384.7	366.9	355.7	352.9
52.5°	2953.4	2482.1	995.9	456.4	419.0	407.1	403.4	378.6	364.2	355.7	352.9
55°	3270.5	2657.4	920.9	409.2	383.5	386.9	396.7	379.2	369.5	359.0	355.0
57.5°	3587.9	2838.6	837.4	369.5	355.3	371.9	392.1	380.4	372.2	362.1	358.4
60°	3838.8	2953.4	707.9	336.0	333.0	355.3	381.0	371.2	360.5	360.9	360.2
62.5°	3956.0	2947.3	565.0	306.4	310.7	333.0	363.3	356.9	348.0	359.9	360.9
65°	3890.2	2800.4	439.8	279.5	286.7	309.7	345.0	349.8	352.9	375.9	378.9
67.5°	3614.2	2514.5	340.7	255.9	265.0	293.8	346.7	381.0	385.0	409.2	408.9
69°	3328.6	2246.4	296.0	243.6	254.3	297.8	370.7	400.9	385.9	411.7	407.9
70°	3089.3	2034.3	272.1	235.3	249.5	304.8	386.5	400.7	381.4	403.4	397.2
72.5°	2379.3	1463.6	230.7	220.0	232.9	291.7	391.2	391.7	370.7	374.9	364.5
75°	1631.9	924.9	201.4	199.3	207.8	262.9	376.4	374.3	342.8	336.7	328.1
77.5°	899.8	469.8	171.1	179.3	185.2	232.9	342.2	339.1	313.1	300.2	297.2
80°	347.1	205.7	144.5	159.5	163.1	201.7	300.0	297.2	275.5	258.9	254.3
82.5°	131.0	107.7	119.3	138.1	136.8	166.5	254.0	252.4	231.4	207.2	199.8
85°	60.6	64.6	94.6	113.8	105.0	123.3	203.3	206.0	180.3	151.5	151.5
87.5°	25.7	36.1	67.1	86.0	70.7	83.3	149.0	142.3	130.7	90.5	85.1
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)