

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: P382817

Luminaire Tested: **GLEON-SA1D-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1D-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7737.4 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

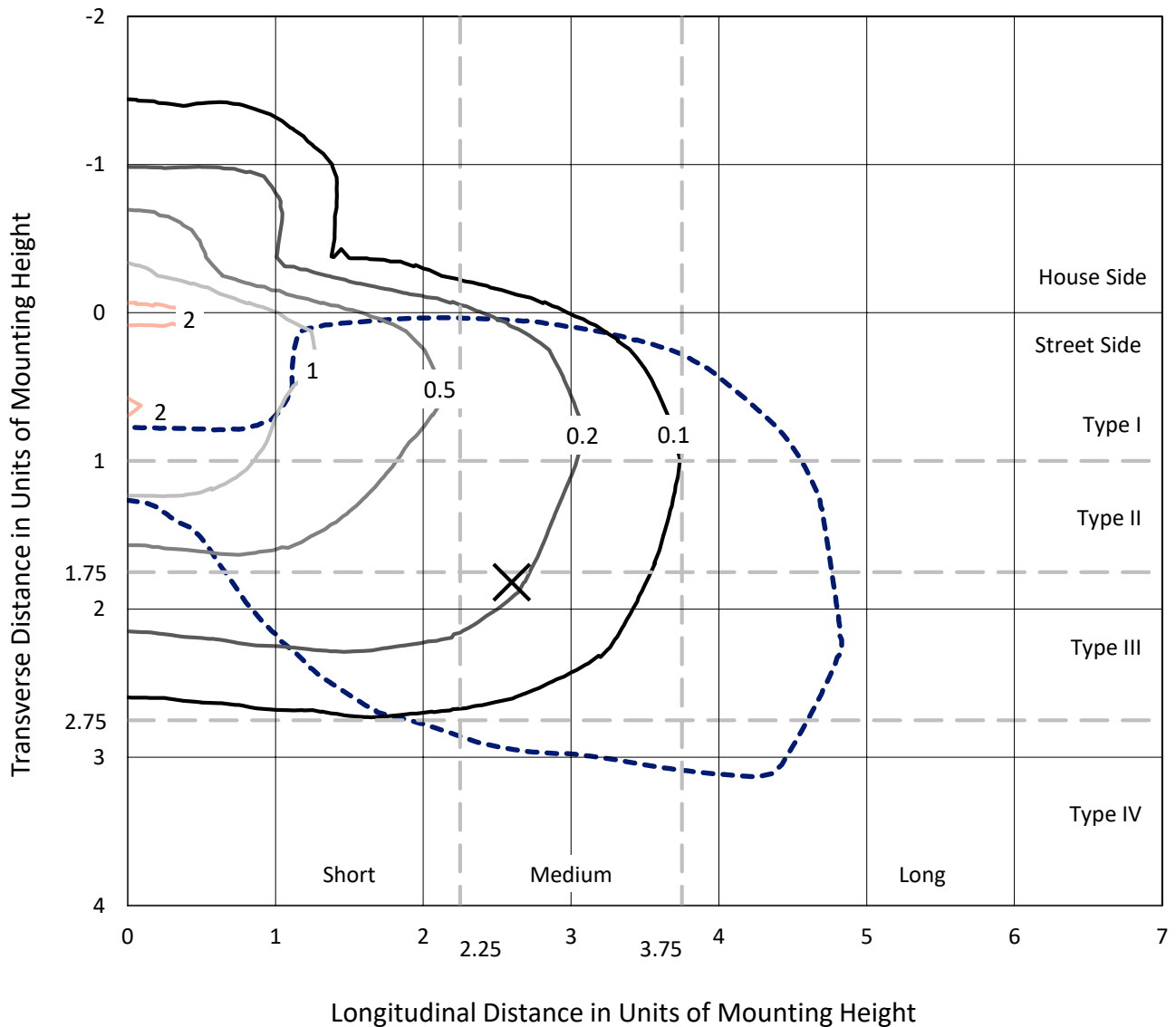
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

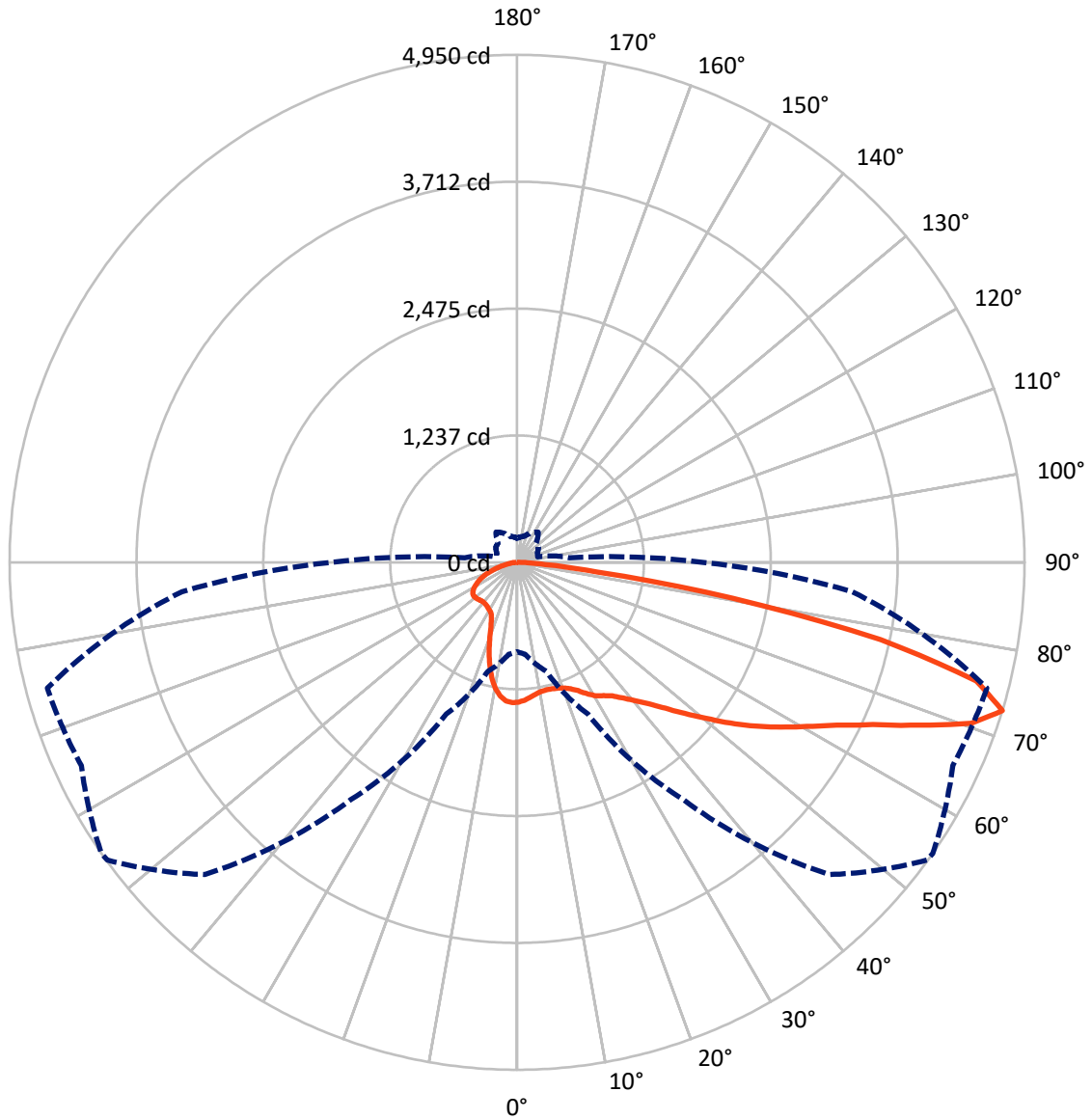
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1438.1	0.0	1438.1
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	6299.3	0.0	6299.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	7737.4	0.0	7737.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.5	1.6
10°-20°	328.8	4.2
20°-30°	542.1	7.0
30°-40°	801.9	10.4
40°-50°	1119.2	14.5
50°-60°	1457.3	18.8
60°-70°	1790.9	23.1
70°-80°	1403.9	18.1
80°-90°	169.9	2.2
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°	7737.4	100.0
0°-180°	7737.4	100.0

**Coefficient of Utilization**

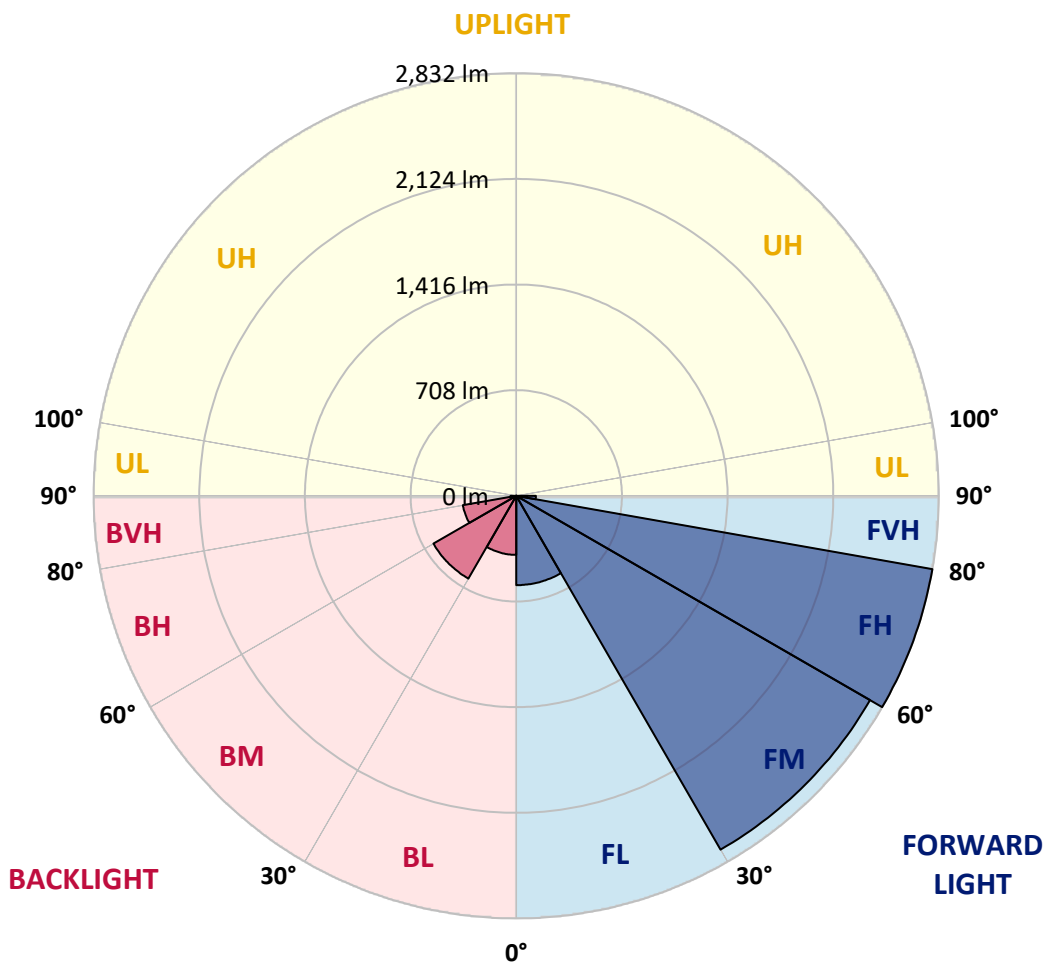


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	598.7	7.7			
FM (30°-60°)	2737.7	35.4			
FH (60°-80°)	2831.6	36.6			G2/5000
FVH (80°-90°)	131.4	1.7			G2/225
BL (0°-30°)	395.7	5.1	B1/500		
BM (30°-60°)	640.7	8.3	B1/1000		
BH (60°-80°)	363.2	4.7	B1/500		G1/500
BVH (80°-90°)	38.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7
2.5°	1320.3	1317.1	1321.0	1326.5	1332.6	1340.7	1345.3	1347.5	1355.6	1358.7	1365.5
5°	1259.2	1257.6	1264.1	1273.5	1286.8	1305.7	1320.8	1323.7	1345.2	1360.2	1374.1
7.5°	1214.7	1214.7	1222.3	1233.6	1248.5	1273.8	1295.2	1299.1	1335.5	1368.1	1393.7
10°	1179.4	1180.7	1189.6	1202.9	1220.4	1247.3	1275.8	1280.3	1332.9	1386.4	1427.1
12.5°	1155.9	1159.0	1167.1	1179.2	1200.9	1233.6	1269.6	1275.6	1338.4	1412.5	1467.5
15°	1170.8	1176.0	1176.8	1181.8	1193.8	1229.4	1273.2	1279.5	1350.1	1439.2	1513.1
17.5°	1236.2	1237.9	1229.8	1219.4	1213.6	1236.4	1284.2	1290.8	1364.2	1465.6	1557.1
20°	1335.5	1334.4	1316.9	1288.7	1259.4	1263.1	1302.2	1309.0	1383.3	1488.9	1601.0
22.5°	1460.9	1457.2	1430.3	1378.3	1328.4	1307.5	1333.9	1339.7	1412.0	1522.1	1648.0
25°	1613.0	1604.9	1569.4	1499.6	1426.1	1372.3	1381.5	1386.9	1453.9	1559.1	1691.1
27.5°	1773.5	1765.4	1720.1	1635.7	1538.0	1454.1	1447.1	1451.7	1501.4	1586.6	1723.0
30°	1941.3	1932.6	1891.3	1796.7	1656.7	1538.7	1508.2	1510.0	1534.8	1601.5	1749.2
32.5°	2109.8	2101.7	2055.5	1945.6	1785.5	1629.7	1552.3	1550.0	1554.9	1616.9	1778.7
35°	2280.7	2283.9	2229.8	2108.2	1928.2	1730.8	1604.6	1599.7	1588.7	1648.6	1820.5
37.5°	2463.7	2461.5	2391.6	2264.5	2077.4	1840.6	1679.7	1678.8	1640.9	1708.4	1886.1
40°	2586.0	2587.3	2544.7	2424.4	2228.2	1962.1	1775.8	1773.9	1724.3	1798.0	1972.1
42.5°	2633.8	2642.4	2653.4	2577.0	2386.1	2103.0	1890.6	1887.9	1840.6	1926.6	2073.3
45°	2637.2	2654.4	2722.4	2712.7	2546.0	2264.2	2037.1	2029.8	1995.8	2097.5	2194.0
47.5°	2607.9	2625.7	2738.6	2793.4	2688.9	2434.4	2208.6	2202.8	2173.6	2311.3	2324.6
50°	2543.9	2560.8	2705.1	2832.9	2806.6	2598.0	2406.2	2391.0	2375.4	2558.2	2474.1
52.5°	2423.9	2456.6	2660.4	2842.3	2876.8	2743.3	2613.9	2604.0	2612.6	2818.8	2623.9
55°	2139.9	2176.5	2545.2	2834.5	2928.9	2865.3	2821.7	2821.2	2865.8	3092.2	2784.6
57.5°	1980.7	2006.6	2310.5	2821.2	2990.5	2986.6	3027.3	3032.3	3119.4	3389.8	2952.9
60°	1890.8	1918.0	2191.6	2771.7	3086.1	3143.4	3237.2	3247.2	3377.0	3719.4	3155.4
62.5°	1809.0	1838.8	2117.9	2671.1	3198.8	3367.6	3488.6	3497.5	3649.9	4058.1	3351.1
65°	1669.1	1702.9	2010.0	2605.1	3301.2	3660.1	3808.3	3814.2	3963.2	4413.0	3500.9
67.5°	1471.6	1502.4	1806.4	2458.9	3377.0	4015.2	4233.1	4236.6	4273.9	4663.6	3577.5
70°	1240.8	1252.6	1516.3	2157.4	3287.4	4347.3	4698.9	4699.7	4557.2	4824.1	3564.9
72.5°	871.8	899.5	1100.8	1633.1	2825.1	4306.9	4940.6	4949.5	4688.9	4743.1	3280.1
75°	534.7	564.0	690.5	989.7	1792.3	3387.2	4564.9	4626.5	4442.0	4229.0	2679.5
77.5°	357.5	368.5	450.6	577.0	811.9	1948.8	3509.5	3625.6	3690.1	3084.1	1713.6
80°	199.4	220.3	298.7	358.6	361.2	774.4	2104.3	2131.5	2053.1	1228.1	528.7
82.5°	105.5	117.1	199.4	210.6	197.0	259.2	784.3	785.1	656.0	329.3	157.1
85°	81.8	91.5	136.7	128.6	100.6	115.0	258.7	272.9	223.2	134.9	51.2
87.5°	40.8	50.7	92.8	81.5	39.5	32.9	92.5	98.7	88.0	52.8	18.5
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°	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7
2.5°	1368.1	1370.5	1373.4	1370.2	1369.2	1365.0	1357.9	1356.3	1352.7	1353.0	1355.0
5°	1380.2	1384.1	1382.5	1370.5	1356.1	1335.9	1315.1	1297.3	1285.5	1284.8	1284.0
7.5°	1403.1	1405.7	1393.5	1359.2	1319.0	1272.5	1228.5	1190.1	1166.9	1161.2	1159.9
10°	1439.2	1438.7	1405.0	1335.9	1255.7	1172.6	1102.1	1048.7	1017.6	1008.5	1006.2
12.5°	1479.5	1473.4	1408.9	1293.6	1166.4	1051.1	961.7	902.4	870.0	859.5	856.9
15°	1521.0	1506.1	1399.2	1230.4	1056.6	920.2	826.4	771.5	754.0	748.2	747.2
17.5°	1559.7	1530.9	1371.5	1144.7	931.5	789.8	716.6	694.7	698.8	706.4	706.7
20°	1597.6	1547.7	1327.1	1036.4	799.5	682.4	657.5	673.7	693.6	709.0	711.1
22.5°	1635.0	1559.4	1269.9	911.5	681.3	622.0	639.5	669.0	691.8	708.5	711.3
25°	1666.3	1562.3	1190.9	778.3	599.3	599.3	630.8	658.9	681.3	697.8	700.6
27.5°	1677.8	1542.9	1079.6	654.9	558.0	588.8	618.8	642.1	661.2	678.7	681.8
30°	1682.3	1507.2	951.0	555.9	540.9	577.6	602.6	622.6	640.5	657.0	659.9
32.5°	1683.0	1464.0	814.6	499.7	529.2	565.8	582.5	600.0	619.4	625.9	626.9
35°	1688.0	1413.1	670.9	470.9	518.2	554.8	568.2	580.7	549.3	551.7	553.8
37.5°	1702.4	1362.7	550.6	454.7	511.1	549.1	565.0	519.5	494.9	489.2	488.4
40°	1729.3	1308.8	461.5	441.6	508.5	551.9	544.9	485.1	442.7	411.1	406.3
42.5°	1766.7	1250.8	404.6	433.1	510.4	565.8	516.9	451.9	381.6	361.2	358.6
45°	1808.7	1189.9	373.7	427.0	516.6	576.5	511.1	407.6	353.1	337.7	336.4
47.5°	1849.5	1115.4	357.8	424.4	525.3	567.9	486.9	394.1	339.5	331.4	332.2
50°	1896.3	1048.3	348.1	421.5	532.8	562.4	459.4	387.1	334.2	344.2	354.6
52.5°	1935.8	978.7	339.5	415.7	535.7	552.8	452.4	388.4	334.2	353.3	363.3
55°	1982.5	926.1	329.6	403.7	530.2	525.3	447.4	396.2	338.2	326.1	327.2
57.5°	2042.9	908.9	318.6	384.9	512.0	485.3	445.1	403.7	335.8	328.3	330.9
60°	2126.5	927.3	314.1	360.4	483.5	453.9	445.3	399.8	319.3	306.3	306.6
62.5°	2206.3	947.7	313.8	345.0	448.4	426.0	439.3	387.1	311.0	303.4	306.3
65°	2232.4	927.0	301.4	327.7	409.0	392.6	428.3	373.5	304.7	293.3	292.7
67.5°	2197.3	863.0	276.0	299.8	363.8	353.6	414.0	357.2	294.8	285.4	283.8
70°	2093.4	720.0	244.6	262.9	312.3	309.6	391.2	338.4	281.4	273.3	266.6
72.5°	1813.4	513.0	206.2	218.7	254.3	262.6	359.9	313.8	262.6	245.2	234.7
75°	1489.4	379.7	169.4	172.0	193.1	215.8	316.7	285.1	240.4	210.6	202.5
77.5°	912.1	232.3	134.9	135.9	138.5	172.2	260.8	253.0	212.2	175.6	169.9
80°	295.3	126.8	97.4	102.5	94.6	126.2	201.8	215.4	182.1	146.9	140.6
82.5°	112.3	74.0	65.9	69.2	65.6	84.7	147.1	172.5	149.2	120.7	98.3
85°	54.4	41.8	38.9	43.7	40.5	43.4	94.1	127.0	113.2	78.6	73.2
87.5°	19.4	18.5	14.9	20.1	17.2	15.5	28.8	64.0	74.7	54.1	48.3
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)