

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: P382777

Luminaire Tested: **GLEON-SA1C-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1C-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6555.3 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

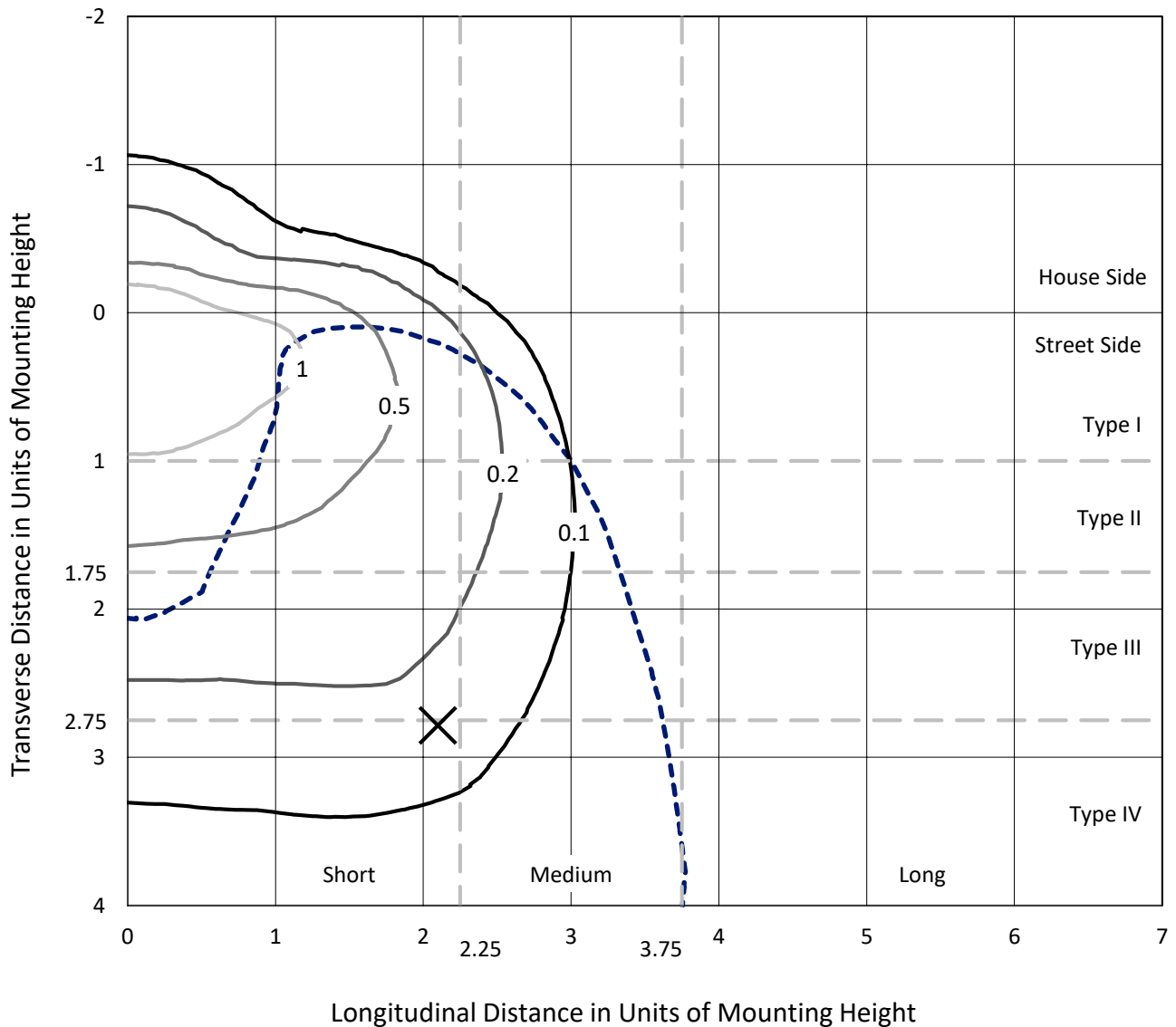
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

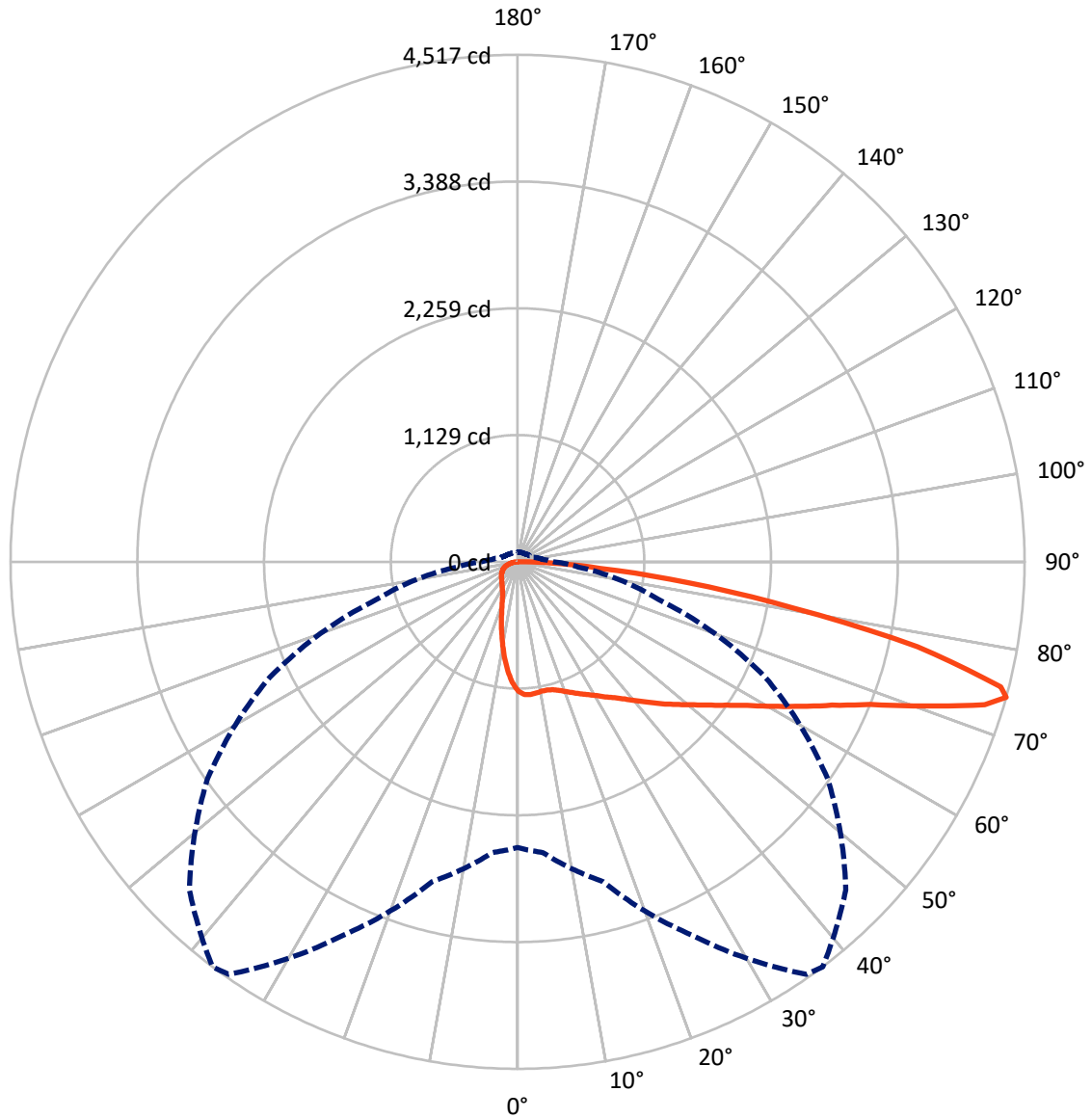
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	902.0	0.0	902.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	5653.3	0.0	5653.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	6555.3	0.0	6555.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	1.6
10°-20°	260.7	4.0
20°-30°	401.7	6.1
30°-40°	584.1	8.9
40°-50°	859.8	13.1
50°-60°	1207.4	18.4
60°-70°	1528.2	23.3
70°-80°	1345.6	20.5
80°-90°	266.1	4.1
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°	6555.3	100.0
0°-180°	6555.3	100.0

Coefficient of Utilization



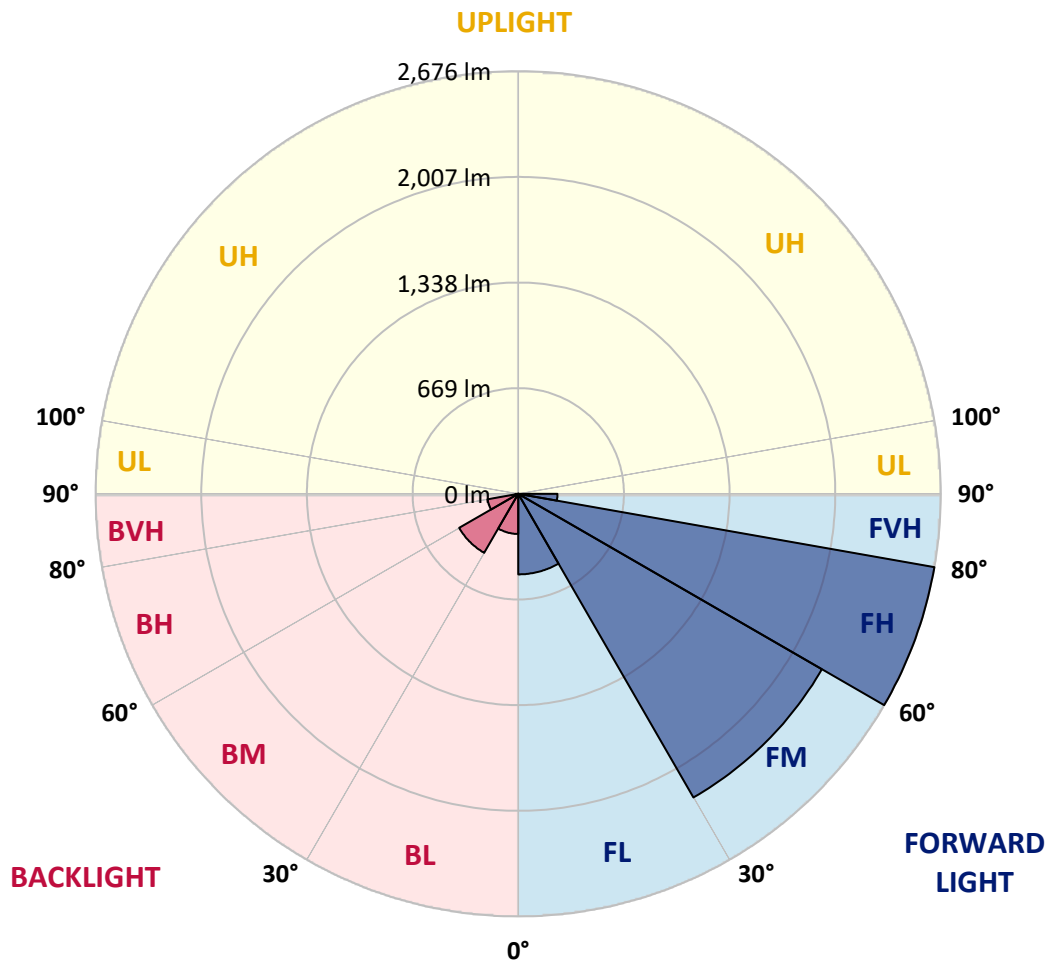
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.1	7.8			
FM (30°-60°)	2219.7	33.9			
FH (60°-80°)	2675.5	40.8			G2/5000
FVH (80°-90°)	248.0	3.8			G3/500
BL (0°-30°)	254.1	3.9	B1/500		
BM (30°-60°)	431.6	6.6	B1/1000		
BH (60°-80°)	198.3	3.0	B1/500		G1/500
BVH (80°-90°)	18.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	1194.5	1194.7	1194.5	1192.7	1188.3	1184.6	1181.6	1177.2	1167.5	1160.1	1149.0
5°	1205.8	1204.4	1203.5	1200.0	1193.1	1188.9	1183.2	1174.9	1158.9	1144.1	1126.1
7.5°	1200.5	1198.9	1196.9	1192.7	1184.8	1181.4	1173.3	1162.4	1143.3	1123.8	1098.0
10°	1184.1	1183.6	1182.7	1181.8	1175.1	1172.4	1165.0	1153.4	1134.4	1110.9	1080.7
12.5°	1165.8	1167.0	1170.7	1175.6	1172.5	1171.1	1166.6	1158.8	1139.3	1113.9	1077.4
15°	1154.3	1157.5	1167.5	1180.2	1182.7	1182.2	1181.1	1176.0	1155.5	1127.3	1084.8
17.5°	1150.4	1155.7	1174.7	1195.6	1203.1	1204.7	1205.1	1196.4	1173.5	1143.7	1092.4
20°	1157.5	1164.2	1192.0	1220.8	1232.6	1233.6	1231.4	1216.2	1190.6	1157.8	1096.6
22.5°	1179.2	1185.3	1219.9	1252.5	1265.9	1267.3	1261.0	1237.9	1208.6	1174.4	1102.4
25°	1221.1	1228.4	1263.1	1295.7	1302.6	1302.8	1293.8	1265.1	1232.2	1197.7	1114.9
27.5°	1275.6	1282.9	1314.1	1346.0	1342.3	1340.2	1328.0	1299.3	1262.9	1229.8	1137.0
30°	1336.3	1344.4	1373.9	1396.6	1387.8	1383.6	1373.7	1336.8	1305.6	1273.7	1171.0
32.5°	1399.1	1406.5	1432.3	1447.8	1436.7	1434.9	1419.9	1386.1	1361.2	1340.7	1225.9
35°	1463.6	1468.9	1494.2	1503.0	1488.2	1487.8	1483.6	1452.7	1437.0	1446.7	1305.8
37.5°	1529.3	1530.7	1552.4	1552.9	1548.5	1550.4	1554.8	1535.3	1539.8	1569.9	1409.7
40°	1588.0	1591.6	1607.4	1612.2	1619.9	1626.3	1648.3	1635.5	1669.5	1723.1	1539.0
42.5°	1631.4	1638.6	1663.7	1676.2	1700.9	1711.1	1742.0	1753.7	1822.1	1902.5	1692.8
45°	1668.1	1679.2	1719.6	1745.3	1787.0	1804.8	1849.1	1888.6	1994.6	2097.1	1854.7
47.5°	1707.8	1721.9	1772.5	1821.5	1878.3	1898.3	1978.9	2038.0	2178.6	2292.9	2007.3
50°	1766.2	1777.1	1826.5	1903.4	1974.3	2000.1	2111.7	2196.4	2365.7	2479.5	2139.6
52.5°	1847.7	1843.6	1885.4	1993.2	2088.3	2120.2	2253.5	2365.0	2555.2	2648.3	2251.4
55°	1929.7	1922.8	1952.2	2087.2	2221.4	2254.8	2409.5	2534.3	2735.6	2800.2	2337.1
57.5°	2020.9	2007.8	2032.5	2193.2	2372.8	2412.8	2584.4	2714.2	2912.9	2923.1	2391.6
60°	2114.9	2097.1	2124.9	2324.6	2565.2	2612.3	2789.0	2889.7	3080.2	3021.5	2409.1
62.5°	2197.1	2184.7	2227.3	2471.2	2782.0	2833.8	2989.8	3076.2	3245.0	3062.4	2345.8
65°	2269.0	2271.0	2344.9	2636.1	3023.8	3079.0	3220.3	3306.2	3374.8	3038.1	2197.8
67.5°	2354.6	2366.4	2492.4	2853.1	3328.1	3388.6	3555.5	3556.9	3447.3	2895.9	1906.4
70°	2479.5	2503.8	2695.4	3154.2	3760.8	3843.9	3972.9	3704.3	3345.5	2510.2	1500.0
72.5°	2590.4	2635.6	2911.4	3498.8	4288.3	4351.3	4216.9	3619.3	2919.8	1881.3	934.5
74°	2545.4	2601.4	2950.6	3668.5	4486.8	4517.1	4134.5	3371.3	2434.5	1302.8	543.1
75°	2448.4	2509.3	2893.3	3666.9	4461.6	4444.8	3935.4	3088.0	2005.0	888.5	361.3
77.5°	1975.9	2040.4	2438.0	3142.7	3658.4	3642.4	3023.1	2071.5	878.2	291.4	183.6
80°	1148.8	1198.0	1513.4	1995.7	2466.8	2495.7	1988.1	1025.0	345.4	163.7	124.5
82.5°	510.3	544.3	731.1	1018.7	1488.7	1525.9	1041.2	537.1	213.3	99.5	74.8
85°	334.8	359.9	443.8	485.1	708.9	734.3	509.6	418.2	140.8	54.7	55.0
87.5°	240.8	265.1	329.8	287.9	325.4	308.1	277.3	387.0	56.5	31.2	18.4
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°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	1144.1	1140.5	1132.2	1116.5	1107.7	1100.3	1088.0	1080.9	1077.7	1077.4	1078.8
5°	1115.8	1107.2	1085.7	1059.4	1038.4	1019.2	995.5	981.1	971.0	965.0	966.6
7.5°	1082.7	1069.3	1035.6	993.6	959.9	922.7	886.0	864.1	847.0	834.3	836.6
10°	1060.1	1041.7	992.5	931.9	875.8	821.8	771.2	741.0	717.0	698.5	699.9
12.5°	1052.5	1027.6	959.4	878.6	799.9	726.0	659.9	613.5	588.8	567.8	569.5
15°	1053.7	1020.1	931.7	830.6	731.5	638.5	558.4	504.1	470.6	456.1	456.3
17.5°	1054.6	1011.7	902.7	779.1	663.9	556.7	469.7	414.7	383.1	369.7	369.9
20°	1051.5	997.8	866.6	720.0	593.2	481.7	397.4	350.7	326.7	316.4	316.4
22.5°	1047.6	981.4	826.0	660.7	523.4	416.6	345.7	310.1	296.2	289.3	289.1
25°	1049.5	969.1	784.4	599.6	459.3	364.6	311.2	287.8	278.4	274.1	273.9
27.5°	1059.4	963.4	746.1	539.0	403.2	325.6	288.2	271.5	265.6	262.8	262.8
30°	1077.4	963.4	706.1	487.2	356.5	296.7	270.4	259.1	255.0	253.1	253.1
32.5°	1108.8	968.7	667.5	436.0	319.3	274.1	255.6	248.0	244.8	243.9	243.9
35°	1162.9	986.7	629.9	387.4	289.3	255.6	241.6	237.2	234.8	234.6	235.3
37.5°	1238.9	1023.4	594.6	351.7	268.1	240.6	229.7	226.3	224.9	226.1	227.0
40°	1334.4	1073.2	562.5	319.3	251.9	228.6	218.9	216.6	215.9	217.5	218.9
42.5°	1449.9	1140.7	536.2	296.0	239.5	218.4	209.7	206.9	206.2	208.0	209.9
45°	1574.8	1213.2	517.7	278.7	229.7	210.8	201.6	198.6	197.2	198.1	200.2
47.5°	1688.4	1281.8	510.3	266.5	220.5	204.4	194.4	190.7	188.5	188.0	189.6
50°	1784.3	1332.9	513.7	259.1	213.1	197.2	187.5	183.3	179.9	177.8	179.0
52.5°	1854.0	1364.9	517.0	255.9	207.4	189.4	179.9	176.0	171.3	167.9	167.9
55°	1904.5	1372.3	509.8	253.3	203.0	180.8	171.3	167.7	163.0	159.1	158.6
57.5°	1924.4	1351.5	483.3	249.7	200.0	172.7	162.4	159.6	155.7	151.0	150.8
60°	1897.7	1287.3	432.1	241.7	196.0	166.0	153.3	151.5	149.6	145.2	145.0
62.5°	1790.1	1146.5	365.7	225.8	188.2	158.8	145.0	146.0	146.2	143.2	142.7
65°	1594.9	953.0	301.1	205.0	176.4	150.4	136.5	140.8	143.4	142.9	142.2
67.5°	1311.3	741.7	255.2	183.1	161.0	138.5	127.2	132.3	134.4	136.0	135.5
70°	973.3	523.0	211.1	160.0	142.2	124.7	115.2	117.7	116.4	118.2	119.0
72.5°	542.6	313.8	172.1	136.9	122.9	108.5	101.8	101.4	98.4	98.4	98.4
74°	325.6	230.2	151.3	122.6	111.0	97.9	92.1	90.1	87.3	87.5	87.3
75°	261.9	197.9	138.8	113.2	102.7	91.7	85.9	83.1	81.0	81.0	80.9
77.5°	165.3	150.4	111.8	90.1	82.2	75.5	71.5	67.9	67.9	67.6	67.4
80°	124.9	119.6	87.1	68.1	63.1	57.9	55.4	53.8	53.8	54.5	54.3
82.5°	85.7	90.1	61.2	47.6	45.0	41.4	40.9	41.1	40.4	39.5	39.2
85°	62.6	67.6	41.4	30.0	27.5	25.2	27.0	27.9	26.8	24.7	23.8
87.5°	24.0	44.3	22.2	12.5	11.6	10.0	11.6	12.0	12.9	10.2	10.4
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)