

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: P451274

Luminaire Tested: **GALN-SA2A-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6617 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

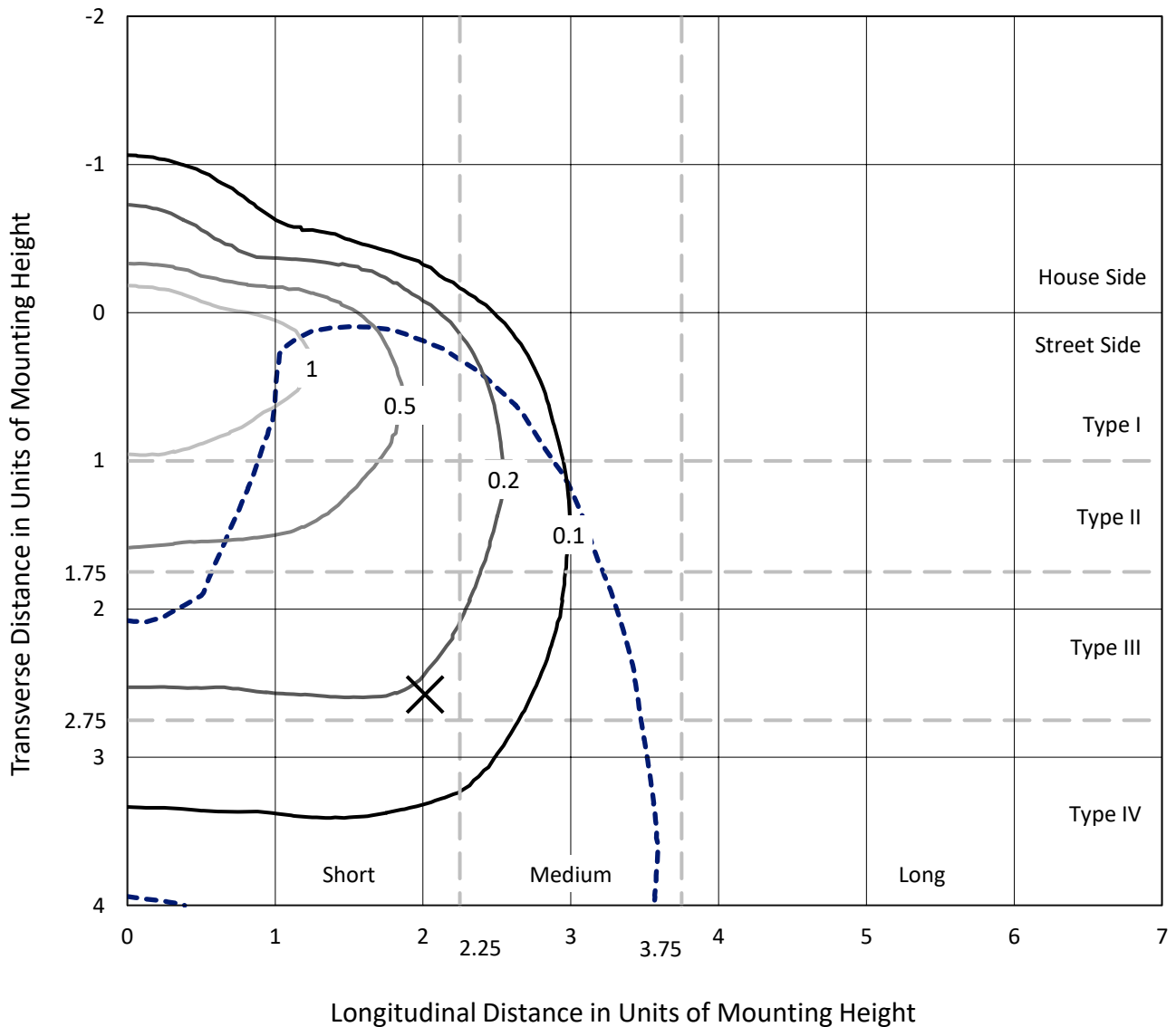
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

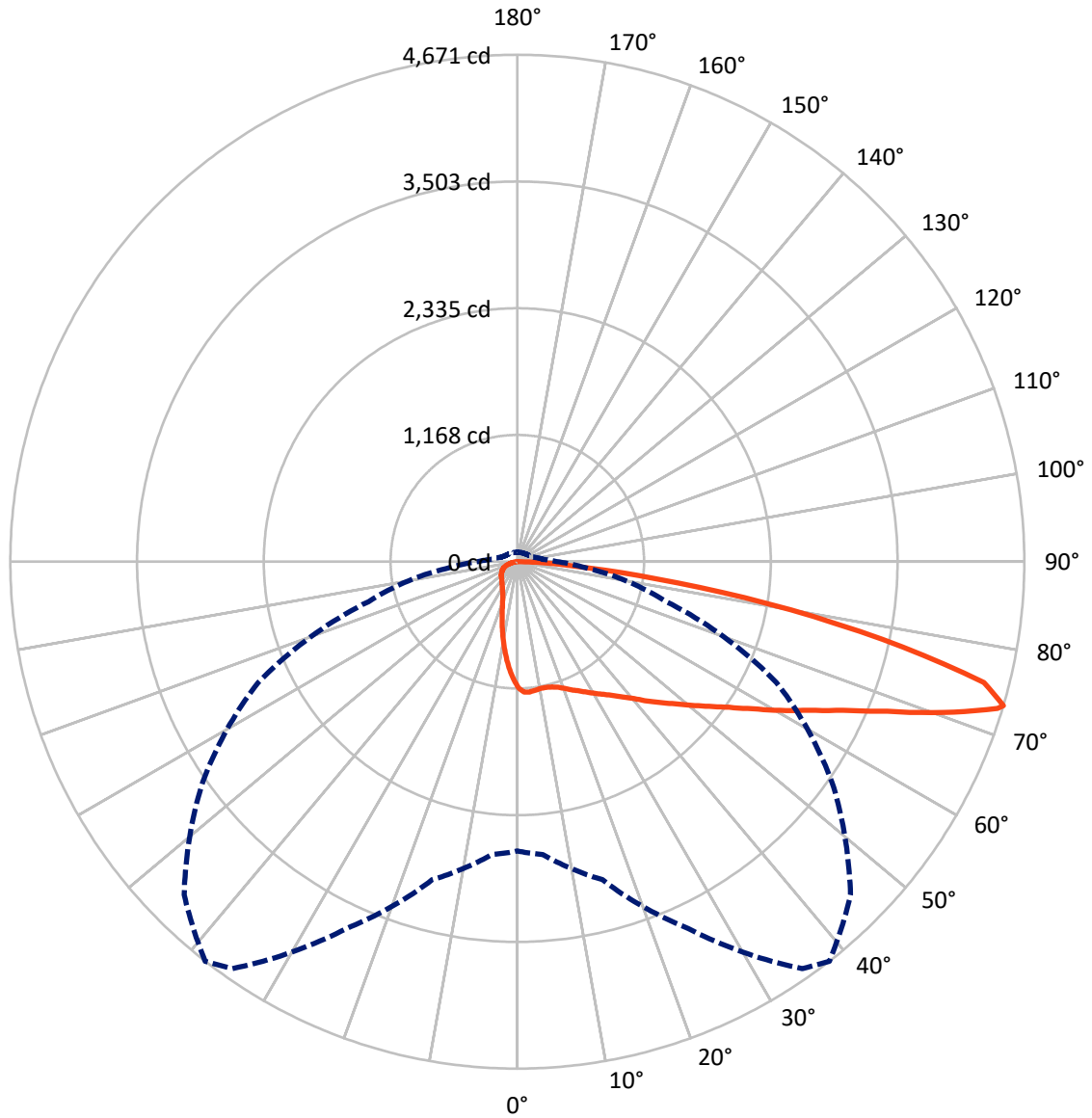
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	889.5	0.0	889.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5727.5	0.0	5727.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	6617.0	0.0	6617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	1.5
10°-20°	260.2	3.9
20°-30°	405.2	6.1
30°-40°	594.3	9.0
40°-50°	881.6	13.3
50°-60°	1249.1	18.9
60°-70°	1584.5	23.9
70°-80°	1319.0	19.9
80°-90°	221.6	3.3
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°	6617.0	100.0
0°-180°	6617.0	100.0

Coefficient of Utilization



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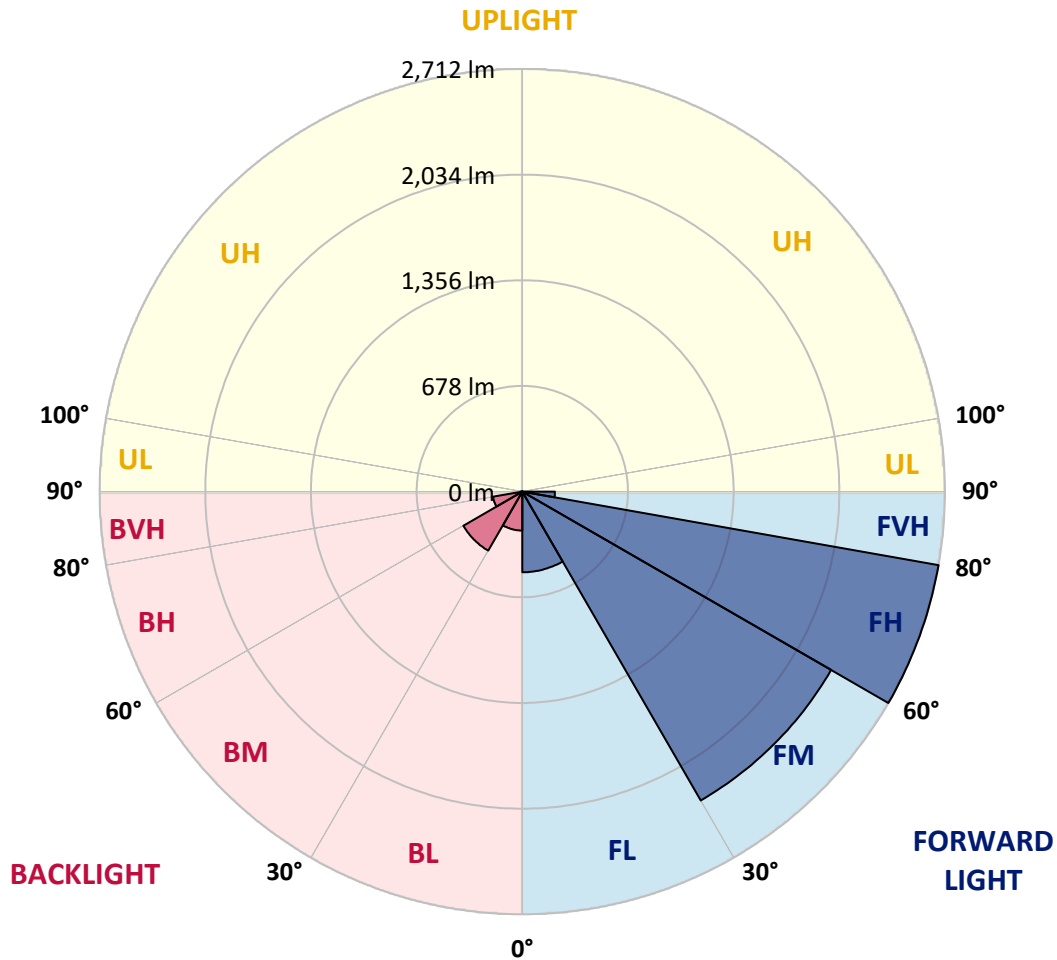
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	517.3	7.8			
FM (30°-60°)	2288.3	34.6			
FH (60°-80°)	2712.3	41.0			G2/5000
FVH (80°-90°)	209.6	3.2			G2/225
BL (0°-30°)	249.6	3.8	B1/500		
BM (30°-60°)	436.7	6.6	B1/1000		
BH (60°-80°)	191.2	2.9	B1/500		G1/500
BVH (80°-90°)	12.0	0.2			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5
2.5°	1209.2	1215.2	1212.2	1208.1	1205.5	1202.9	1199.1	1188.3	1179.7	1170.3	1155.8
5°	1218.2	1221.9	1219.3	1214.1	1208.1	1205.5	1198.4	1184.2	1170.3	1154.6	1133.0
7.5°	1212.9	1214.4	1211.4	1205.1	1199.9	1195.0	1186.8	1171.1	1154.3	1135.2	1106.8
10°	1194.3	1199.9	1199.9	1194.6	1189.4	1186.8	1178.6	1163.6	1148.3	1126.6	1093.0
12.5°	1178.9	1184.9	1189.8	1188.3	1187.9	1187.9	1181.6	1170.3	1152.4	1131.9	1091.9
15°	1168.5	1175.6	1186.0	1192.0	1195.8	1196.9	1194.3	1184.5	1166.2	1142.3	1096.4
17.5°	1166.2	1174.8	1193.9	1207.0	1216.7	1216.3	1215.6	1202.1	1181.9	1157.3	1102.0
20°	1176.3	1187.5	1214.1	1234.6	1248.8	1246.2	1242.1	1224.5	1201.0	1173.3	1107.2
22.5°	1206.6	1218.2	1247.3	1269.7	1283.6	1283.6	1271.2	1248.1	1223.0	1192.0	1114.3
25°	1249.9	1262.6	1293.7	1316.4	1322.8	1317.9	1305.6	1277.6	1248.8	1218.9	1129.2
27.5°	1303.0	1318.3	1347.1	1366.1	1364.3	1360.5	1347.8	1312.0	1283.2	1255.9	1154.6
30°	1369.1	1380.3	1410.2	1414.7	1408.0	1407.3	1389.3	1353.4	1326.5	1305.6	1190.9
32.5°	1431.5	1441.6	1465.5	1467.4	1455.5	1456.9	1440.1	1407.3	1391.9	1384.5	1251.8
35°	1497.7	1502.9	1523.5	1521.2	1513.4	1512.3	1505.5	1474.1	1479.0	1492.4	1338.1
37.5°	1553.0	1563.4	1575.0	1576.9	1576.5	1580.3	1584.7	1569.8	1597.8	1640.0	1451.3
40°	1603.8	1612.8	1630.0	1635.9	1650.5	1658.0	1673.3	1673.7	1738.3	1807.8	1590.7
42.5°	1638.2	1653.5	1685.6	1696.5	1732.0	1754.4	1777.2	1801.5	1895.3	1984.6	1755.1
45°	1668.1	1688.3	1741.7	1775.3	1823.5	1850.8	1899.0	1949.8	2084.7	2201.7	1922.2
47.5°	1713.3	1731.2	1792.5	1851.9	1924.8	1956.2	2028.3	2104.1	2280.5	2408.7	2082.1
50°	1776.1	1786.9	1849.3	1946.1	2039.1	2079.5	2174.8	2284.3	2489.8	2613.1	2222.6
52.5°	1856.4	1860.9	1910.6	2039.5	2162.1	2212.1	2338.4	2466.2	2672.9	2790.6	2334.0
55°	1951.3	1943.8	1982.7	2138.5	2302.6	2368.0	2503.6	2650.5	2878.8	2934.1	2415.0
57.5°	2045.1	2033.5	2064.5	2258.8	2476.0	2554.8	2712.9	2840.3	3062.6	3068.2	2471.8
60°	2144.5	2135.9	2172.9	2400.1	2688.6	2782.0	2928.1	3037.2	3240.5	3161.6	2480.8
62.5°	2246.5	2232.7	2285.4	2558.9	2928.1	3012.9	3154.5	3246.5	3415.0	3196.4	2394.5
65°	2345.5	2339.2	2420.6	2747.6	3200.9	3297.3	3434.8	3497.2	3554.7	3144.1	2180.4
67.5°	2450.9	2463.6	2593.7	2999.5	3556.6	3677.7	3826.0	3767.4	3594.7	2896.3	1836.2
70°	2611.6	2619.8	2820.9	3329.4	4015.1	4161.2	4233.0	3863.4	3401.9	2425.9	1380.3
72.5°	2680.7	2717.0	3023.8	3675.8	4536.0	4625.3	4369.7	3649.3	2833.9	1647.9	725.3
73°	2665.4	2708.8	3033.1	3728.5	4576.7	4670.5	4340.6	3539.1	2634.4	1419.2	621.8
75°	2474.5	2527.9	2911.7	3684.4	4497.5	4441.5	3872.0	3016.3	1780.2	645.3	283.2
77.5°	1952.4	1967.8	2307.1	2975.2	3541.7	3437.8	2897.8	1885.2	727.2	239.9	160.7
80°	979.4	1035.8	1300.4	1704.3	2368.3	2334.3	1829.1	891.6	303.0	140.9	106.5
82.5°	471.2	511.2	633.4	831.0	1308.6	1277.6	905.8	487.3	192.4	82.2	62.8
85°	303.4	333.3	403.2	396.5	538.1	513.8	406.9	368.8	114.0	43.0	43.7
87.5°	200.3	219.3	263.1	210.4	195.8	177.1	179.7	207.8	22.4	16.4	6.0
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°	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5
2.5°	1149.8	1144.9	1128.9	1113.2	1098.2	1084.0	1074.7	1062.4	1054.1	1056.4	1059.7
5°	1121.0	1110.2	1081.8	1054.1	1028.0	997.0	971.9	951.7	936.4	930.8	929.7
7.5°	1090.7	1072.4	1031.7	984.3	939.8	901.3	856.8	834.8	809.0	800.0	797.0
10°	1072.4	1047.8	990.6	924.5	857.6	793.7	745.5	706.2	670.7	664.0	660.7
12.5°	1067.2	1034.7	957.7	872.5	783.6	705.1	633.7	582.2	547.8	540.0	528.4
15°	1064.2	1023.9	927.1	820.2	707.4	611.7	536.6	476.4	445.0	424.1	424.5
17.5°	1061.6	1011.5	892.7	763.0	641.6	531.4	448.4	394.2	365.5	354.2	353.1
20°	1057.9	997.0	853.1	702.9	566.5	458.1	383.0	342.7	323.2	313.9	313.5
22.5°	1056.4	982.8	814.2	641.6	500.0	401.7	339.7	311.3	298.9	292.6	292.6
25°	1060.1	972.7	773.5	583.3	440.9	353.5	309.8	290.3	283.2	279.9	278.8
27.5°	1071.7	968.2	733.1	525.0	386.8	320.6	289.6	276.1	270.9	268.3	268.7
30°	1093.7	967.8	693.5	467.5	346.4	295.6	273.5	264.2	260.1	258.6	258.2
32.5°	1129.2	976.0	654.7	420.0	312.4	274.6	258.6	251.9	250.0	248.9	248.5
35°	1189.4	999.2	616.2	376.7	286.2	256.0	244.4	241.0	238.4	239.5	239.9
37.5°	1270.5	1039.2	579.6	342.7	266.4	242.1	232.4	229.4	227.9	229.1	230.2
40°	1379.2	1096.7	548.9	315.4	252.2	230.6	222.0	219.3	217.9	219.7	220.1
42.5°	1499.2	1163.2	523.5	294.1	240.6	220.8	212.6	209.6	208.5	209.6	210.0
45°	1622.5	1240.6	510.4	278.8	230.9	213.7	205.1	201.8	199.2	198.4	199.5
47.5°	1743.9	1307.9	510.1	269.4	223.1	207.4	198.0	194.3	190.9	189.1	188.7
50°	1843.0	1361.3	519.0	265.3	216.4	200.3	190.9	187.2	182.7	179.0	179.7
52.5°	1917.7	1396.0	523.1	263.4	212.6	192.8	183.5	180.1	174.9	170.0	170.0
55°	1965.9	1404.3	513.1	261.6	209.6	185.0	174.9	171.9	166.7	161.8	161.8
57.5°	1982.3	1378.9	476.8	257.1	206.6	178.2	166.3	163.7	159.6	154.7	154.0
60°	1944.2	1292.9	413.3	243.6	200.7	171.1	156.9	155.8	154.3	150.2	149.8
62.5°	1797.4	1110.6	344.2	226.1	190.6	163.7	148.3	150.2	151.3	149.1	148.7
65°	1553.0	901.7	294.1	201.8	177.1	153.2	139.0	143.9	146.9	146.9	146.1
67.5°	1259.6	692.4	247.7	180.9	160.3	139.0	128.5	132.3	134.5	133.8	135.6
70°	895.3	469.0	201.8	156.9	139.0	122.9	115.1	115.1	113.6	112.8	112.8
72.5°	434.2	267.9	163.7	131.2	118.5	105.0	98.6	96.0	93.0	92.7	90.8
73°	362.8	240.3	156.2	126.3	113.6	102.4	95.3	91.2	89.3	87.8	87.4
75°	220.8	182.4	130.4	106.5	96.8	88.2	81.8	78.1	76.2	75.1	74.7
77.5°	145.4	136.0	101.3	81.5	74.0	68.8	66.1	62.4	61.3	59.8	59.8
80°	108.4	103.9	72.5	57.5	53.1	48.6	47.8	47.1	44.1	42.2	41.5
82.5°	69.9	74.0	49.3	38.5	33.6	29.9	30.3	31.4	28.4	25.8	25.0
85°	49.7	53.4	29.9	17.6	14.2	12.3	13.8	12.3	12.7	10.1	8.2
87.5°	8.2	14.2	5.2	2.2	1.1	0.7	0.0	0.0	0.0	0.0	0.0
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)