

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: P458582

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458582
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-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: 6487 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

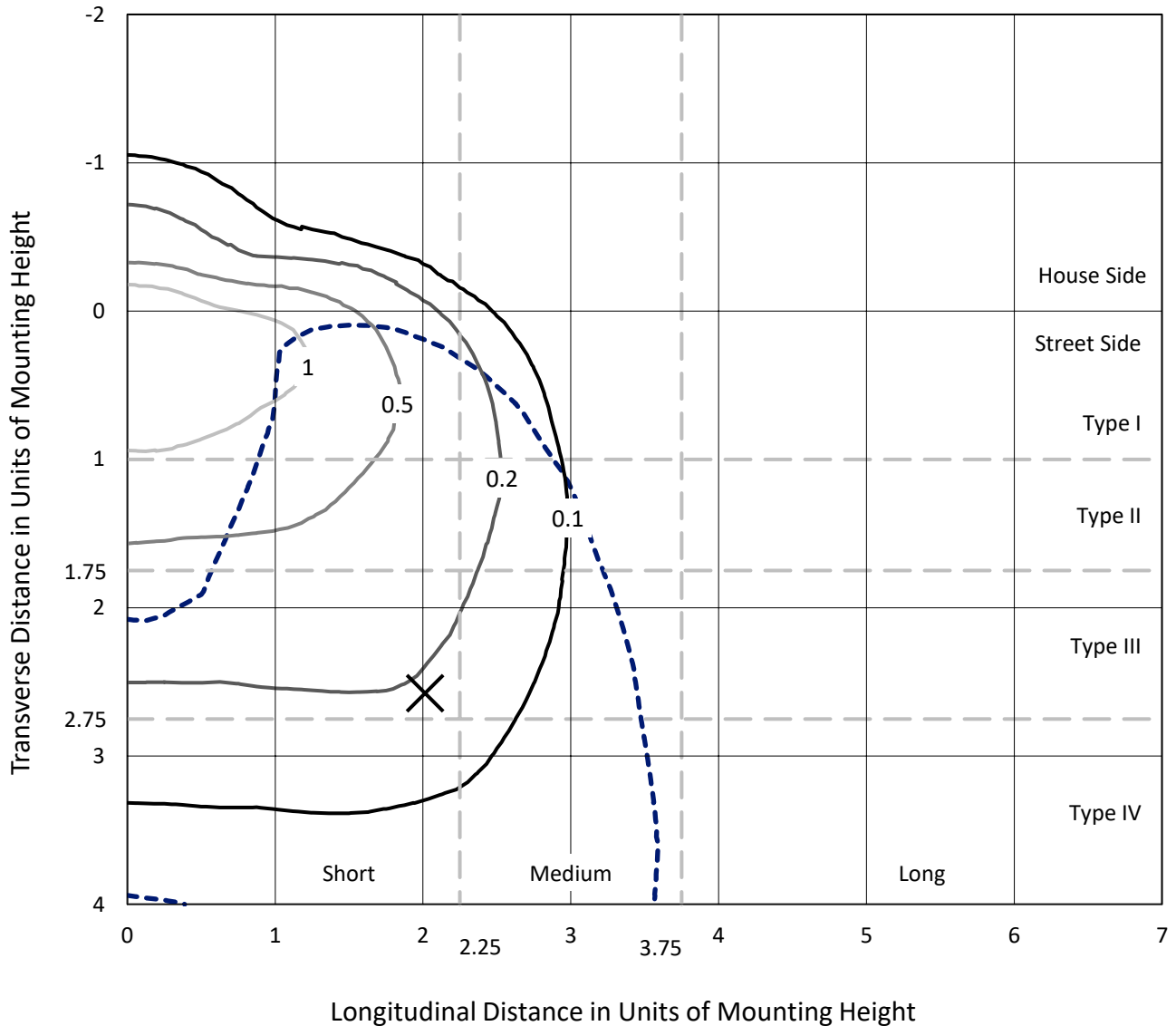
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

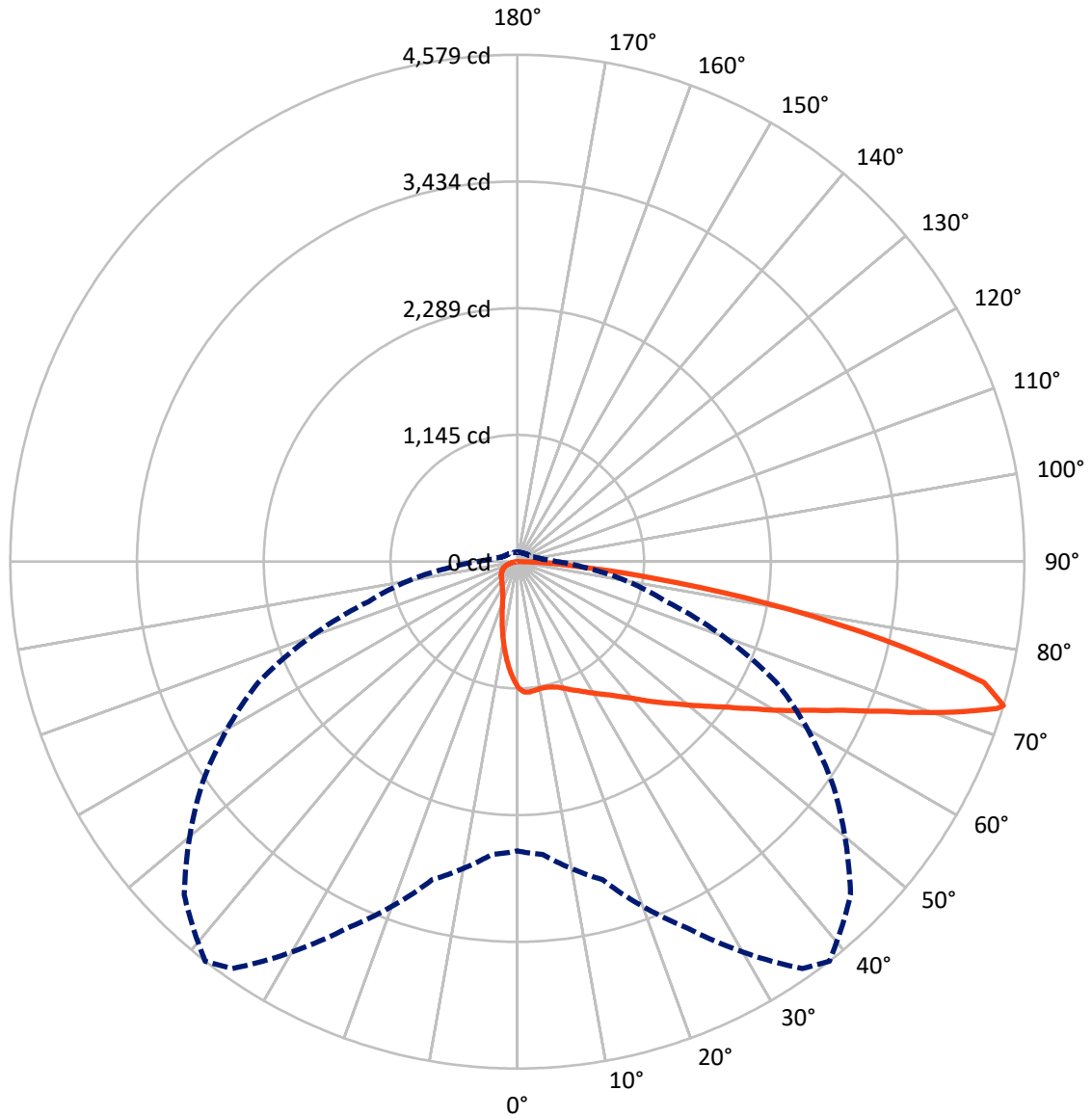
× Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	872.0	0.0	872.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5614.9	0.0	5614.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	6487.0	0.0	6487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	1.5
10°-20°	255.1	3.9
20°-30°	397.2	6.1
30°-40°	582.7	9.0
40°-50°	864.3	13.3
50°-60°	1224.5	18.9
60°-70°	1553.4	23.9
70°-80°	1293.1	19.9
80°-90°	217.3	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°	6487.0	100.0
0°-180°	6487.0	100.0

Coefficient of Utilization



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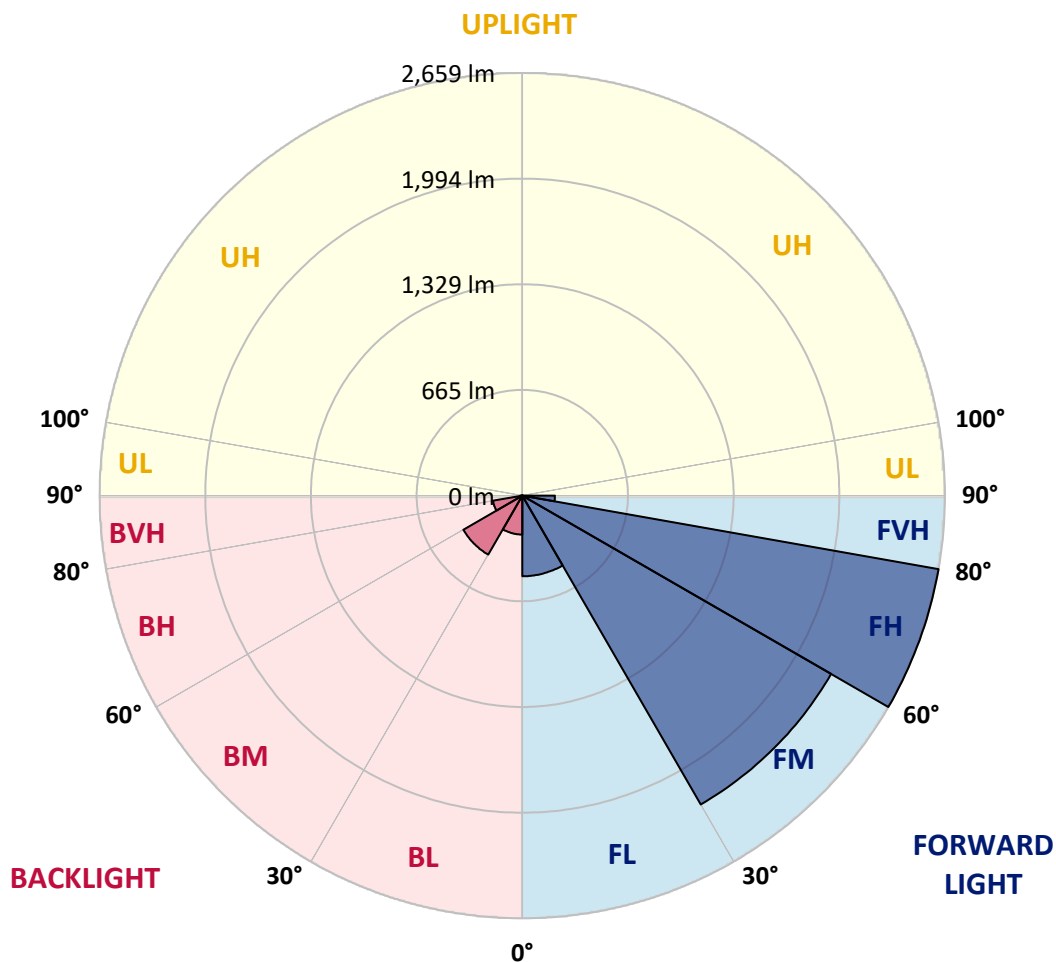
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.1	7.8			
FM (30°-60°)	2243.4	34.6			
FH (60°-80°)	2659.0	41.0			G2/5000
FVH (80°-90°)	205.5	3.2			G2/225
BL (0°-30°)	244.7	3.8	B1/500		
BM (30°-60°)	428.1	6.6	B1/1000		
BH (60°-80°)	187.4	2.9	B1/500		G1/500
BVH (80°-90°)	11.8	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°	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7
2.5°	1185.4	1191.3	1188.4	1184.3	1181.8	1179.2	1175.6	1164.9	1156.5	1147.3	1133.1
5°	1194.2	1197.9	1195.3	1190.2	1184.3	1181.8	1174.8	1160.9	1147.3	1132.0	1110.7
7.5°	1189.1	1190.6	1187.6	1181.4	1176.3	1171.5	1163.5	1148.1	1131.6	1112.9	1085.1
10°	1170.8	1176.3	1176.3	1171.2	1166.0	1163.5	1155.4	1140.8	1125.7	1104.5	1071.5
12.5°	1155.8	1161.6	1166.4	1164.9	1164.6	1164.6	1158.3	1147.3	1129.8	1109.6	1070.4
15°	1145.5	1152.5	1162.7	1168.6	1172.3	1173.4	1170.8	1161.3	1143.3	1119.9	1074.8
17.5°	1143.3	1151.7	1170.4	1183.2	1192.8	1192.4	1191.7	1178.5	1158.7	1134.5	1080.3
20°	1153.2	1164.2	1190.2	1210.4	1224.3	1221.7	1217.7	1200.5	1177.4	1150.3	1085.4
22.5°	1182.9	1194.2	1222.8	1244.8	1258.3	1258.3	1246.3	1223.5	1199.0	1168.6	1092.4
25°	1225.4	1237.8	1268.2	1290.6	1296.8	1292.0	1280.0	1252.5	1224.3	1195.0	1107.1
27.5°	1277.4	1292.4	1320.6	1339.3	1337.5	1333.8	1321.4	1286.2	1258.0	1231.2	1132.0
30°	1342.2	1353.2	1382.5	1386.9	1380.3	1379.6	1362.0	1326.9	1300.5	1280.0	1167.5
32.5°	1403.4	1413.3	1436.8	1438.6	1426.9	1428.3	1411.8	1379.6	1364.6	1357.3	1227.2
35°	1468.3	1473.4	1493.5	1491.3	1483.6	1482.5	1475.9	1445.2	1449.9	1463.1	1311.8
37.5°	1522.5	1532.7	1544.1	1545.9	1545.6	1549.2	1553.6	1539.0	1566.4	1607.8	1422.8
40°	1572.3	1581.1	1597.9	1603.8	1618.1	1625.4	1640.4	1640.8	1704.2	1772.3	1559.5
42.5°	1606.0	1621.0	1652.5	1663.1	1697.9	1719.9	1742.3	1766.1	1858.0	1945.6	1720.7
45°	1635.3	1655.1	1707.5	1740.4	1787.7	1814.4	1861.7	1911.5	2043.8	2158.4	1884.4
47.5°	1679.6	1697.2	1757.3	1815.5	1887.0	1917.7	1988.4	2062.8	2235.7	2361.4	2041.2
50°	1741.2	1751.8	1813.0	1907.9	1999.1	2038.6	2132.0	2239.4	2440.9	2561.8	2178.9
52.5°	1819.9	1824.3	1873.1	1999.4	2119.6	2168.7	2292.5	2417.8	2620.4	2735.8	2288.1
55°	1913.0	1905.7	1943.8	2096.5	2257.3	2321.4	2454.4	2598.4	2822.2	2876.4	2367.6
57.5°	2004.9	1993.6	2024.0	2214.5	2427.3	2504.6	2659.6	2784.5	3002.4	3007.9	2423.3
60°	2102.4	2093.9	2130.2	2352.9	2635.8	2727.3	2870.6	2977.5	3176.8	3099.5	2432.1
62.5°	2202.4	2188.8	2240.5	2508.6	2870.6	2953.7	3092.6	3182.7	3347.9	3133.6	2347.4
65°	2299.5	2293.2	2373.1	2693.6	3138.0	3232.5	3367.3	3428.5	3484.9	3082.3	2137.5
67.5°	2402.8	2415.2	2542.7	2940.5	3486.7	3605.4	3750.9	3693.3	3524.1	2839.4	1800.2
70°	2560.3	2568.3	2765.4	3264.0	3936.2	4079.5	4149.8	3787.5	3335.1	2378.2	1353.2
72.5°	2628.1	2663.6	2964.4	3603.6	4446.9	4534.4	4283.9	3577.6	2778.3	1615.5	711.0
73°	2613.0	2655.5	2973.5	3655.3	4486.8	4578.8	4255.3	3469.5	2582.6	1391.3	609.6
75°	2425.8	2478.2	2854.5	3612.0	4409.2	4354.2	3795.9	2957.0	1745.2	632.7	277.7
77.5°	1914.1	1929.1	2261.7	2916.7	3472.1	3370.2	2840.9	1848.1	712.9	235.2	157.5
80°	960.2	1015.5	1274.8	1670.8	2321.8	2288.5	1793.2	874.1	297.1	138.1	104.4
82.5°	461.9	501.1	620.9	814.7	1282.9	1252.5	888.0	477.7	188.7	80.6	61.5
85°	297.5	326.8	395.3	388.7	527.5	503.7	398.9	361.6	111.7	42.1	42.9
87.5°	196.4	215.0	257.9	206.2	192.0	173.6	176.2	203.7	22.0	16.1	5.9
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°	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7
2.5°	1127.2	1122.4	1106.7	1091.3	1076.6	1062.7	1053.6	1041.5	1033.4	1035.6	1038.9
5°	1099.0	1088.4	1060.5	1033.4	1007.8	977.4	952.8	933.0	918.0	912.5	911.4
7.5°	1069.3	1051.4	1011.4	964.9	921.3	883.6	840.0	818.4	793.1	784.3	781.4
10°	1051.4	1027.2	971.1	906.3	840.7	778.1	730.8	692.4	657.6	651.0	647.7
12.5°	1046.2	1014.4	938.9	855.4	768.2	691.3	621.3	570.7	537.0	529.3	518.0
15°	1043.3	1003.7	908.9	804.1	693.5	599.7	526.1	467.1	436.3	415.8	416.2
17.5°	1040.7	991.7	875.2	748.0	629.0	520.9	439.6	386.5	358.3	347.3	346.2
20°	1037.1	977.4	836.3	689.1	555.4	449.1	375.5	335.9	316.9	307.7	307.4
22.5°	1035.6	963.5	798.2	629.0	490.2	393.8	333.0	305.2	293.1	286.8	286.8
25°	1039.3	953.6	758.3	571.8	432.3	346.5	303.7	284.6	277.7	274.4	273.3
27.5°	1050.6	949.2	718.7	514.7	379.2	314.3	283.9	270.7	265.6	263.0	263.4
30°	1072.3	948.8	679.9	458.3	339.6	289.8	268.2	259.0	255.0	253.5	253.1
32.5°	1107.1	956.9	641.8	411.8	306.3	269.3	253.5	246.9	245.1	244.0	243.6
35°	1166.0	979.6	604.1	369.3	280.6	250.9	239.6	236.3	233.7	234.8	235.2
37.5°	1245.5	1018.8	568.2	335.9	261.2	237.4	227.9	224.9	223.5	224.6	225.7
40°	1352.1	1075.2	538.1	309.2	247.3	226.0	217.6	215.0	213.6	215.4	215.8
42.5°	1469.7	1140.4	513.2	288.3	235.9	216.5	208.4	205.5	204.4	205.5	205.9
45°	1590.6	1216.2	500.4	273.3	226.4	209.5	201.1	197.8	195.3	194.5	195.6
47.5°	1709.7	1282.2	500.0	264.1	218.7	203.3	194.2	190.5	187.2	185.4	185.0
50°	1806.7	1334.5	508.8	260.1	212.1	196.4	187.2	183.5	179.1	175.5	176.2
52.5°	1880.0	1368.6	512.9	258.3	208.4	189.0	179.9	176.6	171.4	166.7	166.7
55°	1927.3	1376.7	503.0	256.4	205.5	181.3	171.4	168.5	163.4	158.6	158.6
57.5°	1943.4	1351.8	467.4	252.0	202.6	174.7	163.0	160.5	156.4	151.7	150.9
60°	1906.0	1267.5	405.2	238.8	196.7	167.8	153.9	152.8	151.3	147.3	146.9
62.5°	1762.1	1088.7	337.4	221.6	186.8	160.5	145.4	147.3	148.4	146.2	145.8
65°	1522.5	884.0	288.3	197.8	173.6	150.2	136.3	141.0	144.0	144.0	143.2
67.5°	1234.9	678.8	242.9	177.3	157.2	136.3	126.0	129.7	131.9	131.1	133.0
70°	877.7	459.7	197.8	153.9	136.3	120.5	112.8	112.8	111.4	110.6	110.6
72.5°	425.7	262.7	160.5	128.6	116.1	102.9	96.7	94.1	91.2	90.9	89.0
73°	355.7	235.6	153.1	123.8	111.4	100.4	93.4	89.4	87.6	86.1	85.7
75°	216.5	178.8	127.8	104.4	94.9	86.5	80.2	76.6	74.7	73.6	73.3
77.5°	142.5	133.3	99.3	79.9	72.5	67.4	64.8	61.2	60.1	58.6	58.6
80°	106.2	101.8	71.1	56.4	52.0	47.6	46.9	46.2	43.2	41.4	40.7
82.5°	68.5	72.5	48.4	37.7	33.0	29.3	29.7	30.8	27.8	25.3	24.5
85°	48.7	52.4	29.3	17.2	13.9	12.1	13.6	12.1	12.5	9.9	8.1
87.5°	8.1	13.9	5.1	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)