

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: P451129

Luminaire Tested: **GALN-SA2A-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451129
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-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 7528 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

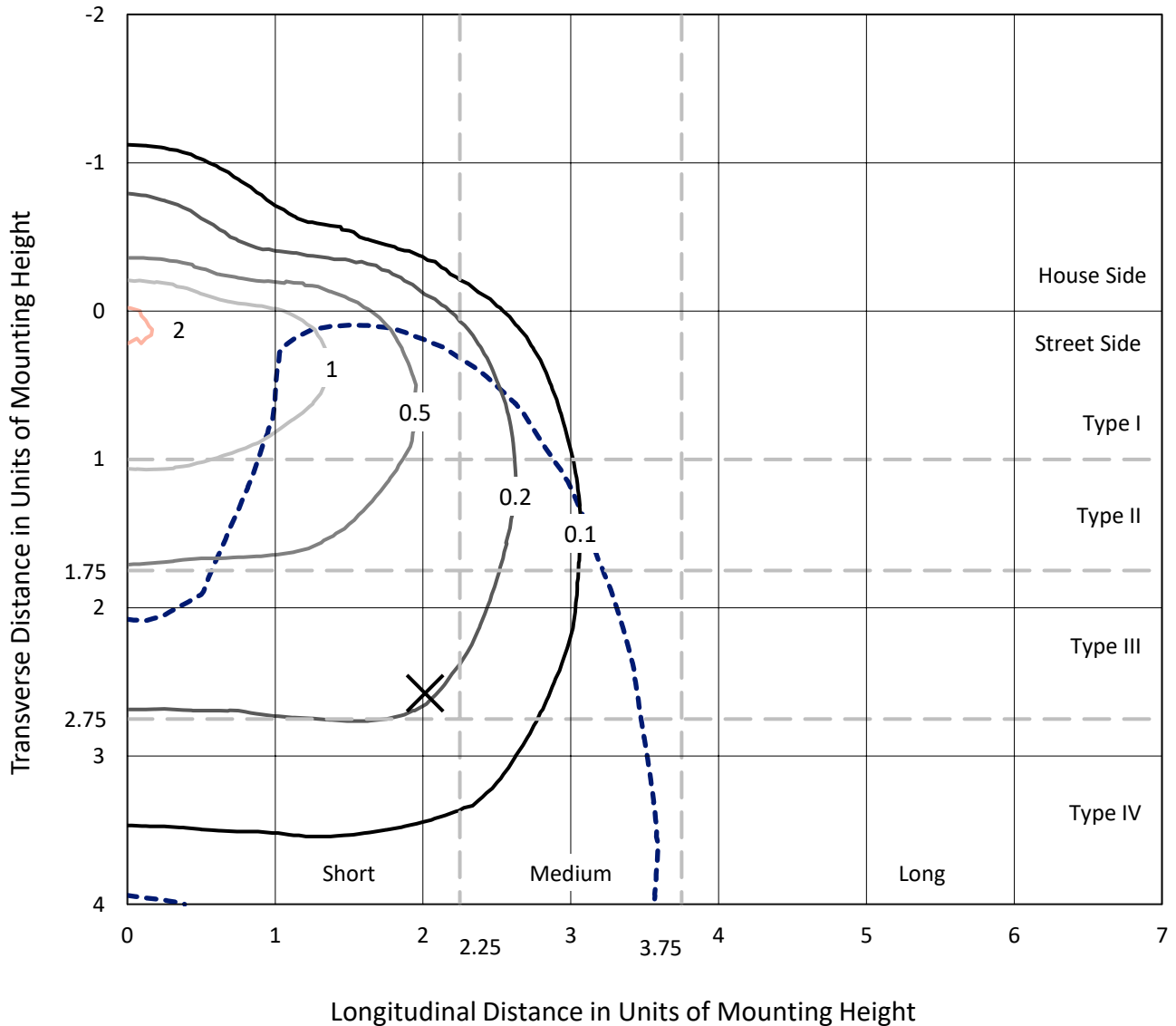
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

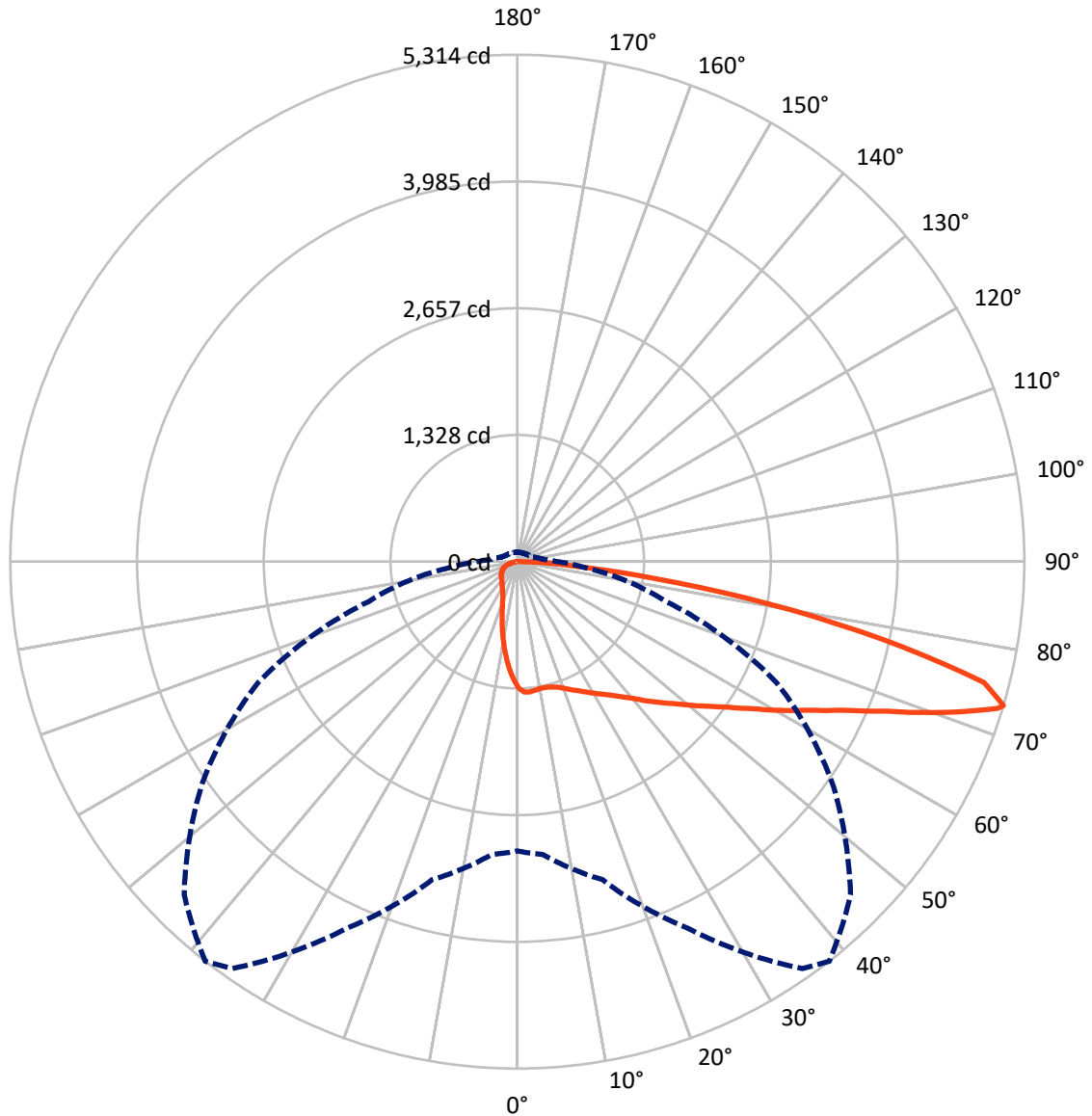
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	1012.0	0.0	1012.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6516.0	0.0	6516.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	7528.0	0.0	7528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	1.5
10°-20°	296.0	3.9
20°-30°	461.0	6.1
30°-40°	676.2	9.0
40°-50°	1003.0	13.3
50°-60°	1421.1	18.9
60°-70°	1802.6	23.9
70°-80°	1500.6	19.9
80°-90°	252.1	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°	7528.0	100.0
0°-180°	7528.0	100.0

Coefficient of Utilization



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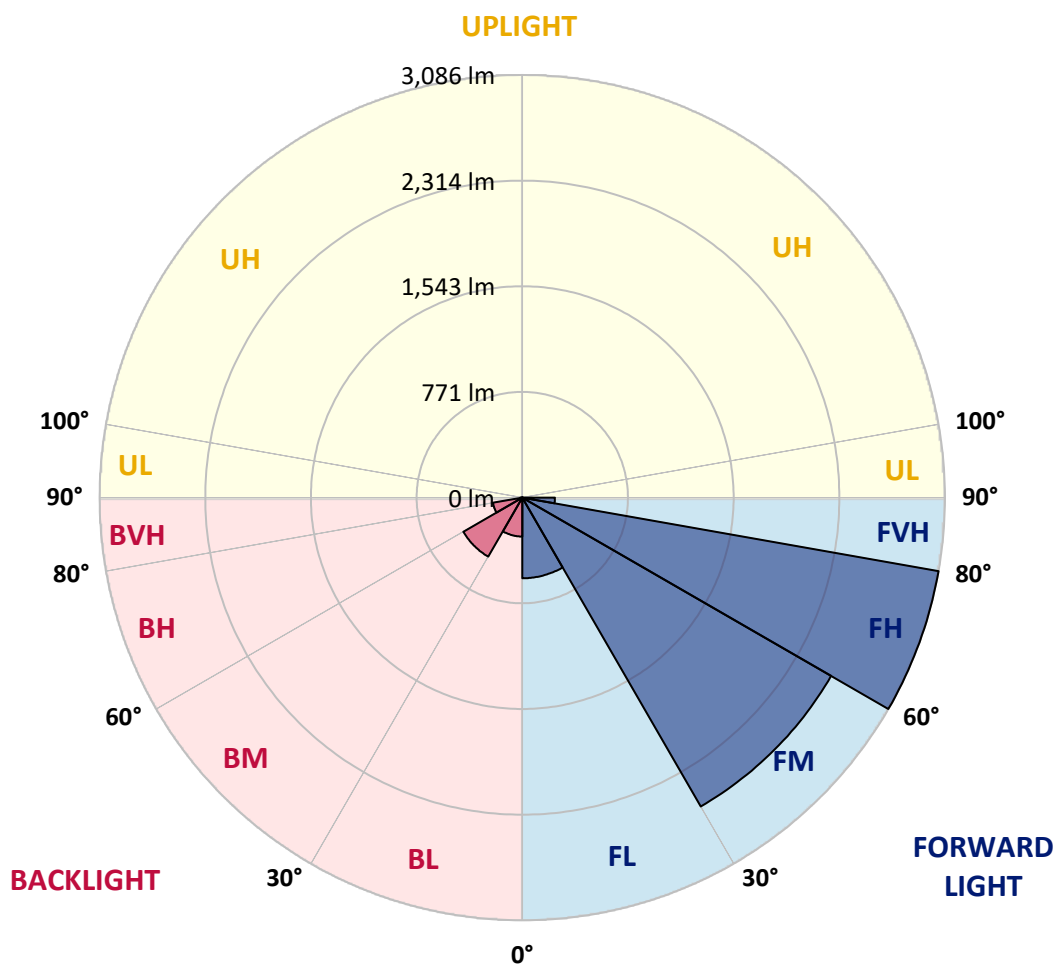
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.5	7.8			
FM (30°-60°)	2603.4	34.6			
FH (60°-80°)	3085.7	41.0			G2/5000
FVH (80°-90°)	238.5	3.2			G3/500
BL (0°-30°)	284.0	3.8	B1/500		
BM (30°-60°)	496.8	6.6	B1/1000		
BH (60°-80°)	217.5	2.9	B1/500		G1/500
BVH (80°-90°)	13.7	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1375.7	1382.5	1379.1	1374.4	1371.4	1368.5	1364.2	1351.9	1342.1	1331.5	1314.9
5°	1385.9	1390.1	1387.2	1381.2	1374.4	1371.4	1363.4	1347.2	1331.5	1313.6	1289.0
7.5°	1379.9	1381.6	1378.2	1371.0	1365.1	1359.5	1350.2	1332.3	1313.2	1291.5	1259.2
10°	1358.7	1365.1	1365.1	1359.1	1353.2	1350.2	1340.8	1323.8	1306.4	1281.7	1243.5
12.5°	1341.2	1348.0	1353.6	1351.9	1351.5	1351.5	1344.2	1331.5	1311.1	1287.7	1242.2
15°	1329.3	1337.4	1349.3	1356.1	1360.4	1361.7	1358.7	1347.6	1326.8	1299.6	1247.3
17.5°	1326.8	1336.6	1358.3	1373.1	1384.2	1383.8	1382.9	1367.6	1344.6	1316.6	1253.7
20°	1338.3	1351.0	1381.2	1404.6	1420.7	1417.8	1413.1	1393.1	1366.3	1334.9	1259.6
22.5°	1372.7	1385.9	1419.0	1444.6	1460.3	1460.3	1446.3	1419.9	1391.4	1356.1	1267.7
25°	1422.0	1436.5	1471.8	1497.7	1504.9	1499.4	1485.4	1453.5	1420.7	1386.7	1284.7
27.5°	1482.4	1499.8	1532.6	1554.2	1552.1	1547.9	1533.4	1492.6	1459.9	1428.8	1313.6
30°	1557.6	1570.4	1604.4	1609.5	1601.8	1601.0	1580.6	1539.8	1509.2	1485.4	1354.9
32.5°	1628.6	1640.1	1667.3	1669.4	1655.8	1657.5	1638.4	1601.0	1583.6	1575.1	1424.1
35°	1703.9	1709.8	1733.2	1730.7	1721.7	1720.5	1712.8	1677.1	1682.6	1697.9	1522.3
37.5°	1766.8	1778.7	1791.9	1794.0	1793.6	1797.8	1802.9	1785.9	1817.8	1865.8	1651.2
40°	1824.6	1834.8	1854.4	1861.2	1877.7	1886.2	1903.7	1904.1	1977.6	2056.7	1809.7
42.5°	1863.7	1881.1	1917.7	1930.0	1970.4	1995.9	2021.9	2049.5	2156.2	2257.8	1996.8
45°	1897.7	1920.7	1981.5	2019.7	2074.6	2105.6	2160.4	2218.3	2371.7	2504.8	2186.8
47.5°	1949.2	1969.6	2039.3	2106.9	2189.8	2225.5	2307.5	2393.8	2594.5	2740.3	2368.8
50°	2020.6	2032.9	2103.9	2214.0	2319.9	2365.8	2474.2	2598.7	2832.6	2972.8	2528.6
52.5°	2112.0	2117.1	2173.6	2320.3	2459.7	2516.7	2660.4	2805.8	3040.9	3174.8	2655.3
55°	2220.0	2211.5	2255.7	2433.0	2619.6	2694.0	2848.3	3015.4	3275.1	3338.0	2747.5
57.5°	2326.7	2313.5	2348.8	2569.8	2816.8	2906.5	3086.4	3231.3	3484.3	3490.6	2812.2
60°	2439.8	2430.0	2472.1	2730.5	3058.7	3165.0	3331.2	3455.4	3686.6	3596.9	2822.4
62.5°	2555.8	2540.1	2600.0	2911.2	3331.2	3427.7	3588.8	3693.4	3885.2	3636.5	2724.2
65°	2668.5	2661.2	2753.9	3125.9	3641.6	3751.2	3907.7	3978.7	4044.1	3576.9	2480.6
67.5°	2788.3	2802.8	2950.7	3412.4	4046.3	4184.0	4352.8	4286.0	4089.6	3295.1	2089.0
70°	2971.1	2980.5	3209.2	3787.8	4567.9	4734.1	4815.7	4395.3	3870.3	2759.9	1570.4
72.5°	3049.8	3091.0	3440.1	4181.9	5160.5	5262.1	4971.3	4151.7	3224.1	1874.8	825.2
73°	3032.4	3081.7	3450.7	4241.8	5206.8	5313.5	4938.2	4026.3	2997.1	1614.6	707.4
75°	2815.1	2875.9	3312.5	4191.7	5116.7	5053.0	4405.1	3431.6	2025.3	734.2	322.2
77.5°	2221.2	2238.7	2624.7	3384.8	4029.3	3911.1	3296.8	2144.7	827.3	272.9	182.8
80°	1114.2	1178.4	1479.4	1939.0	2694.4	2655.7	2081.0	1014.3	344.8	160.3	121.2
82.5°	536.1	581.6	720.6	945.5	1488.8	1453.5	1030.5	554.4	218.9	93.5	71.4
85°	345.2	379.2	458.7	451.1	612.2	584.5	463.0	419.6	129.7	48.9	49.7
87.5°	227.9	249.5	299.3	239.3	222.8	201.5	204.5	236.4	25.5	18.7	6.8
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°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1308.1	1302.6	1284.3	1266.4	1249.4	1233.3	1222.6	1208.6	1199.3	1201.8	1205.6
5°	1275.4	1263.0	1230.7	1199.3	1169.5	1134.2	1105.7	1082.8	1065.3	1059.0	1057.7
7.5°	1240.9	1220.1	1173.8	1119.8	1069.2	1025.4	974.8	949.7	920.4	910.2	906.8
10°	1220.1	1192.0	1127.0	1051.7	975.6	903.0	848.1	803.5	763.1	755.4	751.6
12.5°	1214.1	1177.2	1089.6	992.7	891.5	802.2	721.0	662.3	623.2	614.3	601.1
15°	1210.7	1164.8	1054.7	933.1	804.7	695.9	610.5	542.0	506.3	482.5	482.9
17.5°	1207.8	1150.8	1015.6	868.1	729.9	604.5	510.1	448.5	415.8	403.0	401.7
20°	1203.5	1134.2	970.5	799.6	644.5	521.2	435.7	389.8	367.7	357.1	356.7
22.5°	1201.8	1118.1	926.3	729.9	568.8	457.0	386.4	354.1	340.1	332.9	332.9
25°	1206.1	1106.6	880.0	663.6	501.6	402.2	352.4	330.3	322.2	318.4	317.1
27.5°	1219.2	1101.5	834.1	597.3	440.0	364.8	329.5	314.2	308.2	305.2	305.7
30°	1244.3	1101.1	789.0	531.8	394.1	336.3	311.2	300.6	295.9	294.2	293.8
32.5°	1284.7	1110.4	744.8	477.8	355.4	312.5	294.2	286.5	284.4	283.1	282.7
35°	1353.2	1136.8	701.0	428.5	325.6	291.2	278.0	274.2	271.2	272.5	272.9
37.5°	1445.4	1182.3	659.4	389.8	303.1	275.5	264.4	261.0	259.3	260.6	261.9
40°	1569.1	1247.7	624.5	358.8	287.0	262.3	252.5	249.5	247.8	250.0	250.4
42.5°	1705.6	1323.4	595.6	334.6	273.8	251.2	241.9	238.5	237.2	238.5	238.9
45°	1845.9	1411.4	580.7	317.1	262.7	243.2	233.4	229.6	226.6	225.7	227.0
47.5°	1984.0	1487.9	580.3	306.5	253.8	235.9	225.3	221.1	217.2	215.1	214.7
50°	2096.7	1548.7	590.5	301.8	246.1	227.9	217.2	213.0	207.9	203.6	204.5
52.5°	2181.7	1588.2	595.2	299.7	241.9	219.4	208.7	204.9	199.0	193.4	193.4
55°	2236.5	1597.6	583.7	297.6	238.5	210.4	199.0	195.6	189.6	184.1	184.1
57.5°	2255.3	1568.7	542.5	292.5	235.1	202.8	189.2	186.2	181.5	176.0	175.1
60°	2211.9	1470.9	470.2	277.2	228.3	194.7	178.5	177.3	175.6	170.9	170.5
62.5°	2044.8	1263.5	391.5	257.2	216.8	186.2	168.8	170.9	172.2	169.6	169.2
65°	1766.8	1025.8	334.6	229.6	201.5	174.3	158.1	163.7	167.1	167.1	166.2
67.5°	1433.1	787.7	281.9	205.8	182.4	158.1	146.2	150.5	153.0	152.2	154.3
70°	1018.6	533.5	229.6	178.5	158.1	139.9	130.9	130.9	129.2	128.4	128.4
72.5°	494.0	304.8	186.2	149.2	134.8	119.5	112.2	109.3	105.9	105.4	103.3
73°	412.8	273.4	177.7	143.7	129.2	116.5	108.4	103.7	101.6	99.9	99.5
75°	251.2	207.5	148.4	121.2	110.1	100.3	93.1	88.8	86.7	85.4	85.0
77.5°	165.4	154.7	115.2	92.7	84.2	78.2	75.2	71.0	69.7	68.0	68.0
80°	123.3	118.2	82.5	65.5	60.4	55.3	54.4	53.6	50.2	48.0	47.2
82.5°	79.5	84.2	56.1	43.8	38.3	34.0	34.4	35.7	32.3	29.3	28.5
85°	56.5	60.8	34.0	20.0	16.2	14.0	15.7	14.0	14.5	11.5	9.4
87.5°	9.4	16.2	6.0	2.6	1.3	0.9	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)