

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: P451592

Luminaire Tested: **GALN-SA2C-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9726 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

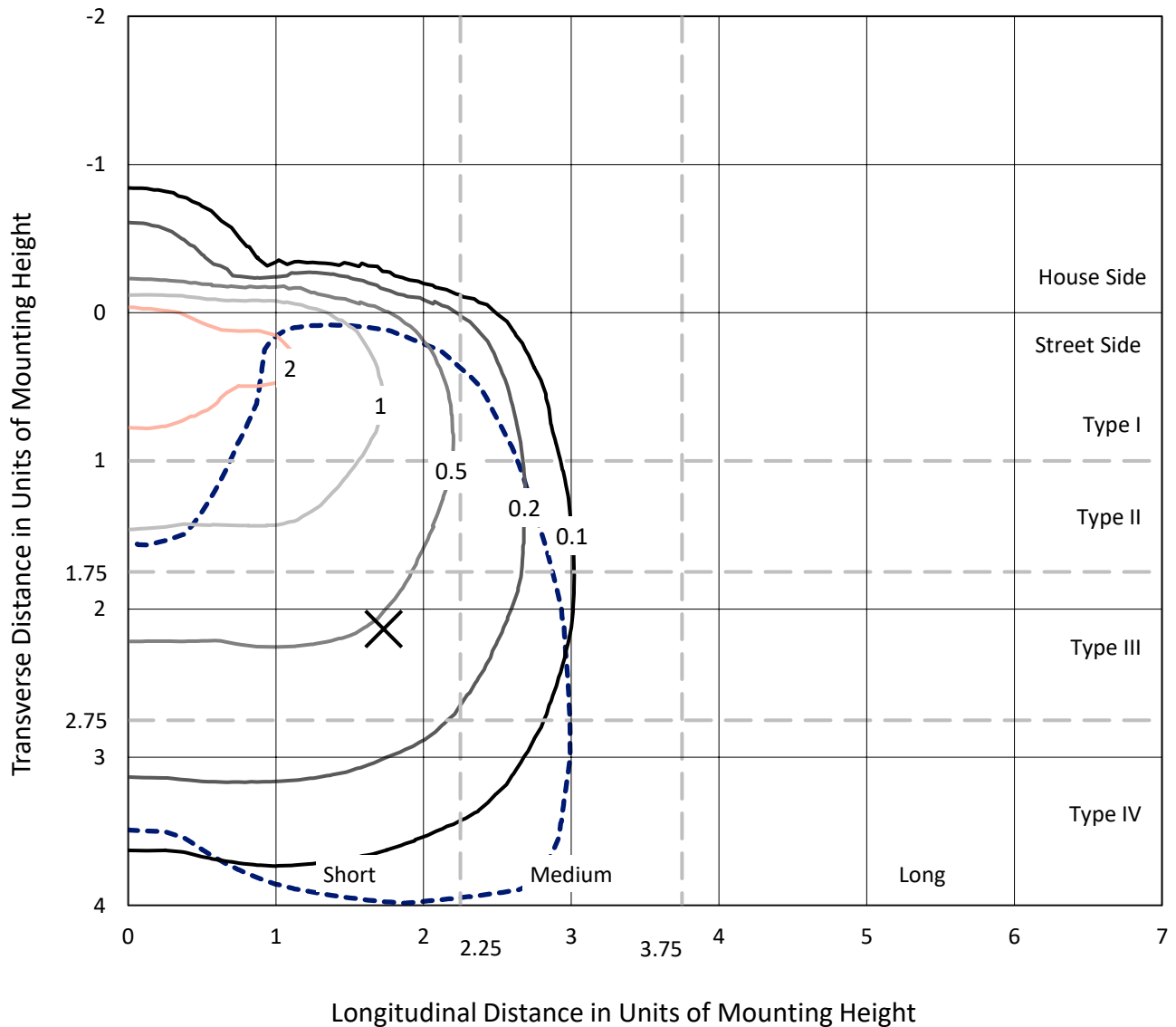
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451592
 CATALOG NUMBER: GALN-SA2C-727-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

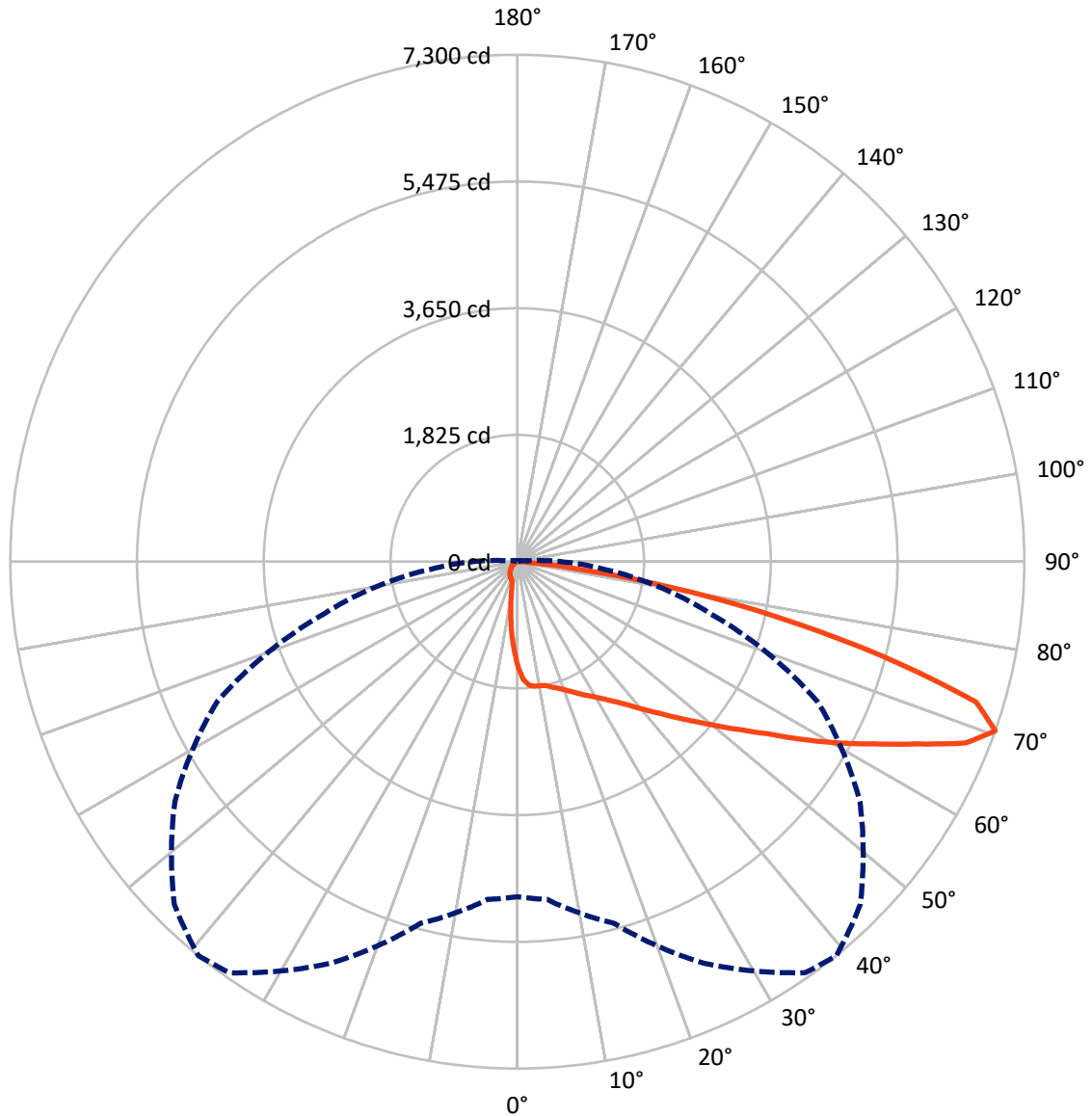
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P451592
CATALOG NUMBER: GALN-SA2C-727-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



REPORT NUMBER: P451592
 CATALOG NUMBER: GALN-SA2C-727-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	634.2	0.0	634.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	9091.8	0.0	9091.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	9726.0	0.0	9726.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	1.3
10°-20°	336.4	3.5
20°-30°	563.5	5.8
30°-40°	874.0	9.0
40°-50°	1385.0	14.2
50°-60°	2030.1	20.9
60°-70°	2602.2	26.8
70°-80°	1635.1	16.8
80°-90°	170.3	1.8
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°	9726.0	100.0
0°-180°	9726.0	100.0



REPORT NUMBER: P451592

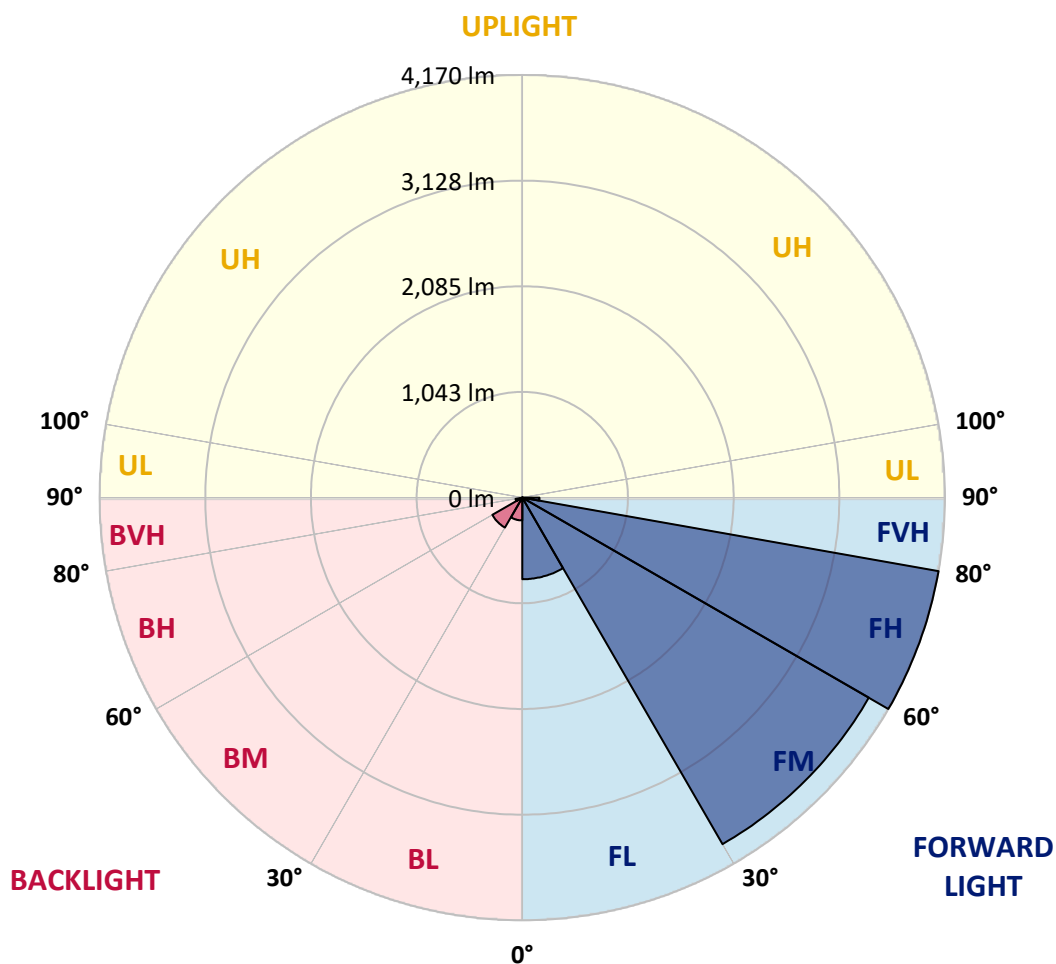
CATALOG NUMBER: GALN-SA2C-727-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	804.8	8.3			
FM (30°-60°)	3947.8	40.6			
FH (60°-80°)	4170.2	42.9			G2/5000
FVH (80°-90°)	169.1	1.7			G2/225
BL (0°-30°)	224.6	2.3	B1/500		
BM (30°-60°)	341.3	3.5	B1/1000		
BH (60°-80°)	67.1	0.7	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
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





REPORT NUMBER: P451592

CATALOG NUMBER: GALN-SA2C-727-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6
2.5°	1753.5	1747.6	1739.8	1730.7	1704.5	1699.9	1684.2	1650.9	1611.1	1578.4	1533.3
5°	1836.5	1839.8	1833.9	1817.6	1798.6	1787.5	1767.9	1716.3	1664.6	1598.6	1524.8
7.5°	1855.5	1862.0	1854.8	1839.1	1820.8	1809.1	1793.4	1749.0	1688.8	1613.7	1512.4
10°	1853.5	1861.4	1856.8	1842.4	1827.4	1816.3	1799.3	1764.0	1715.6	1636.5	1516.3
12.5°	1850.3	1860.7	1860.1	1852.9	1840.5	1832.0	1821.5	1790.1	1745.0	1669.9	1537.9
15°	1841.1	1854.2	1865.9	1871.8	1872.5	1872.5	1859.4	1826.1	1782.9	1713.7	1566.0
17.5°	1845.0	1860.1	1889.5	1906.5	1918.2	1916.9	1903.2	1867.2	1819.5	1758.8	1595.4
20°	1869.2	1889.5	1930.6	1964.6	1976.4	1972.5	1954.2	1912.3	1858.1	1797.3	1624.1
22.5°	1928.7	1947.0	1998.6	2038.5	2047.0	2036.5	2010.4	1953.5	1904.5	1839.1	1658.8
25°	2017.6	2039.1	2086.8	2116.9	2116.9	2111.0	2074.4	2007.8	1956.8	1897.3	1703.9
27.5°	2125.4	2143.7	2190.8	2217.6	2201.9	2184.9	2148.3	2067.9	2018.9	1970.5	1758.1
30°	2234.6	2246.3	2296.0	2307.8	2291.4	2269.8	2230.6	2150.2	2107.1	2069.9	1836.5
32.5°	2337.8	2363.3	2404.5	2401.9	2379.6	2369.2	2333.2	2247.6	2223.4	2219.5	1946.3
35°	2441.1	2460.7	2497.3	2506.4	2486.8	2484.9	2458.7	2395.3	2396.0	2421.5	2117.6
37.5°	2530.0	2547.6	2590.8	2611.0	2614.9	2624.7	2614.3	2572.5	2631.9	2701.9	2344.4
40°	2604.5	2629.3	2684.2	2719.5	2760.0	2796.0	2797.9	2807.1	2926.7	3046.9	2640.4
42.5°	2662.6	2697.3	2777.0	2842.4	2935.2	2980.9	3017.5	3067.9	3269.2	3448.9	2989.4
45°	2738.5	2778.3	2877.7	2980.3	3125.4	3200.5	3251.5	3386.1	3671.8	3916.8	3347.6
47.5°	2863.9	2884.9	2986.2	3135.8	3326.7	3433.9	3533.2	3737.1	4103.8	4323.4	3645.6
50°	3025.4	3039.1	3115.6	3323.4	3570.5	3711.6	3892.7	4132.5	4552.1	4660.6	3814.2
52.5°	3203.8	3208.4	3265.9	3529.9	3843.6	4021.4	4224.0	4520.1	4917.5	4901.1	3926.0
55°	3411.0	3404.4	3453.5	3754.1	4167.2	4370.4	4606.4	4916.8	5234.4	5071.7	3990.0
57.5°	3648.2	3630.6	3678.3	4051.5	4581.5	4824.7	5064.5	5259.3	5480.2	5214.8	4020.8
60°	3896.6	3861.3	3918.2	4385.5	5069.7	5300.5	5499.8	5552.1	5739.0	5328.6	3967.8
62.5°	4094.6	4095.3	4201.1	4741.0	5571.7	5773.6	5879.5	5926.6	5961.9	5303.7	3689.4
65°	4403.8	4414.2	4583.5	5234.4	6152.7	6327.9	6400.4	6247.5	5971.7	4995.2	3271.1
67.5°	4722.7	4756.0	5065.8	5914.2	6823.9	6965.1	6871.6	6309.6	5705.0	4291.3	2480.3
70°	4826.6	4881.5	5392.0	6382.1	7226.5	7299.7	6983.4	6020.0	4769.1	2869.2	1248.3
72.5°	4422.7	4511.6	5204.4	6211.5	6969.7	6906.3	6248.1	5048.8	3031.9	1089.5	381.0
75°	3118.8	3158.1	4325.3	5152.7	5605.7	5425.9	4752.8	3254.8	1247.0	305.9	130.7
77.5°	1610.4	1591.4	2572.5	3418.8	3997.9	3811.6	3112.3	1684.9	472.5	127.4	81.0
80°	832.6	846.4	1113.0	1791.4	2440.4	2245.7	1659.4	781.0	251.6	70.6	62.1
82.5°	466.6	437.9	639.8	782.3	1141.1	894.7	636.6	552.9	109.8	42.5	58.8
85°	85.0	88.9	351.0	422.9	396.1	251.6	205.2	369.3	32.0	23.5	41.2
87.5°	1.3	1.3	68.0	121.6	77.1	35.3	64.7	52.9	6.5	9.1	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451592
 CATALOG NUMBER: GALN-SA2C-727-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6
2.5°	1510.4	1485.6	1439.2	1393.4	1335.2	1287.5	1255.5	1222.2	1188.2	1190.8	1198.6
5°	1484.3	1441.1	1349.6	1252.9	1160.1	1076.4	994.1	920.2	890.2	862.7	864.0
7.5°	1458.1	1397.3	1263.4	1111.7	971.2	828.7	725.5	640.5	595.4	561.4	551.6
10°	1446.4	1366.0	1184.3	975.8	776.4	620.9	488.2	418.9	365.3	348.4	352.9
12.5°	1451.6	1350.3	1113.0	852.9	615.7	432.7	339.9	304.6	292.8	290.8	289.5
15°	1461.4	1339.2	1043.1	717.0	452.3	321.6	285.6	279.1	277.8	276.5	277.1
17.5°	1474.5	1329.4	968.6	589.5	347.0	281.0	270.6	267.3	266.7	266.7	266.7
20°	1487.5	1318.3	885.6	475.8	289.5	265.3	258.8	256.9	256.2	256.2	255.5
22.5°	1502.6	1308.4	801.3	373.8	266.7	254.2	248.4	247.0	246.4	245.7	245.7
25°	1524.1	1296.0	711.7	305.9	252.3	243.8	237.9	236.6	235.9	233.3	234.0
27.5°	1552.9	1286.9	619.6	264.0	239.2	230.7	226.8	224.8	223.5	221.6	222.2
30°	1592.1	1279.0	521.5	241.2	224.2	217.0	213.1	211.8	210.4	208.5	208.5
32.5°	1660.1	1282.3	418.3	222.9	210.4	202.0	198.0	196.7	195.4	193.5	193.5
35°	1762.0	1301.3	334.6	207.2	194.1	185.6	181.7	181.7	179.7	177.1	176.5
37.5°	1928.7	1349.6	268.6	192.1	178.4	170.6	166.0	164.7	162.7	158.8	158.2
40°	2125.4	1424.8	226.1	177.1	164.0	156.2	152.3	148.4	143.1	139.2	138.6
42.5°	2372.5	1501.9	196.1	162.1	150.3	143.1	138.6	132.0	124.2	118.9	118.3
45°	2630.0	1572.5	175.8	148.4	137.2	131.4	126.1	115.7	105.9	99.3	98.7
47.5°	2822.1	1585.6	159.5	135.3	126.1	120.3	113.1	100.0	86.9	81.0	79.1
50°	2913.0	1522.2	142.5	122.2	115.0	108.5	99.3	84.3	69.9	62.7	61.4
52.5°	2945.0	1412.4	128.8	110.5	103.9	96.1	85.0	68.0	54.9	47.7	47.1
55°	2931.9	1273.8	116.3	99.3	90.8	81.7	70.6	54.2	40.5	34.6	33.3
57.5°	2863.3	1097.3	103.9	88.2	77.8	68.6	56.2	40.5	27.4	22.2	21.6
60°	2678.3	856.8	91.5	75.8	66.0	56.2	44.4	28.8	17.0	12.4	12.4
62.5°	2365.9	635.9	79.7	63.4	55.6	45.1	31.4	18.3	9.1	6.5	5.9
65°	1977.0	469.3	66.7	53.6	46.4	35.3	22.2	11.1	4.6	2.0	1.3
67.5°	1379.7	289.5	55.6	43.8	37.9	25.5	13.7	4.6	2.0	0.0	0.0
70°	626.8	137.9	42.5	33.3	28.8	18.3	7.2	2.6	1.3	0.0	0.0
72.5°	194.8	72.5	30.1	24.2	19.6	11.8	3.9	2.0	1.3	0.0	0.0
75°	90.2	46.4	19.0	13.1	11.1	5.9	2.6	1.3	0.7	0.0	0.0
77.5°	67.3	35.9	11.1	7.2	5.9	3.9	2.0	1.3	0.7	0.0	0.0
80°	58.8	18.3	6.5	4.6	3.3	2.6	1.3	0.7	0.0	0.0	0.0
82.5°	52.9	9.1	3.9	2.6	2.0	1.3	0.7	0.7	0.0	0.0	0.0
85°	28.8	5.2	2.6	2.0	1.3	0.7	0.7	0.0	0.0	0.0	0.0
87.5°	5.2	2.6	2.0	1.3	1.3	0.7	0.7	0.7	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)