

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: P458668

Luminaire Tested: **GALN-SA2B-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458668
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-SA2B-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA 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: 8768 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

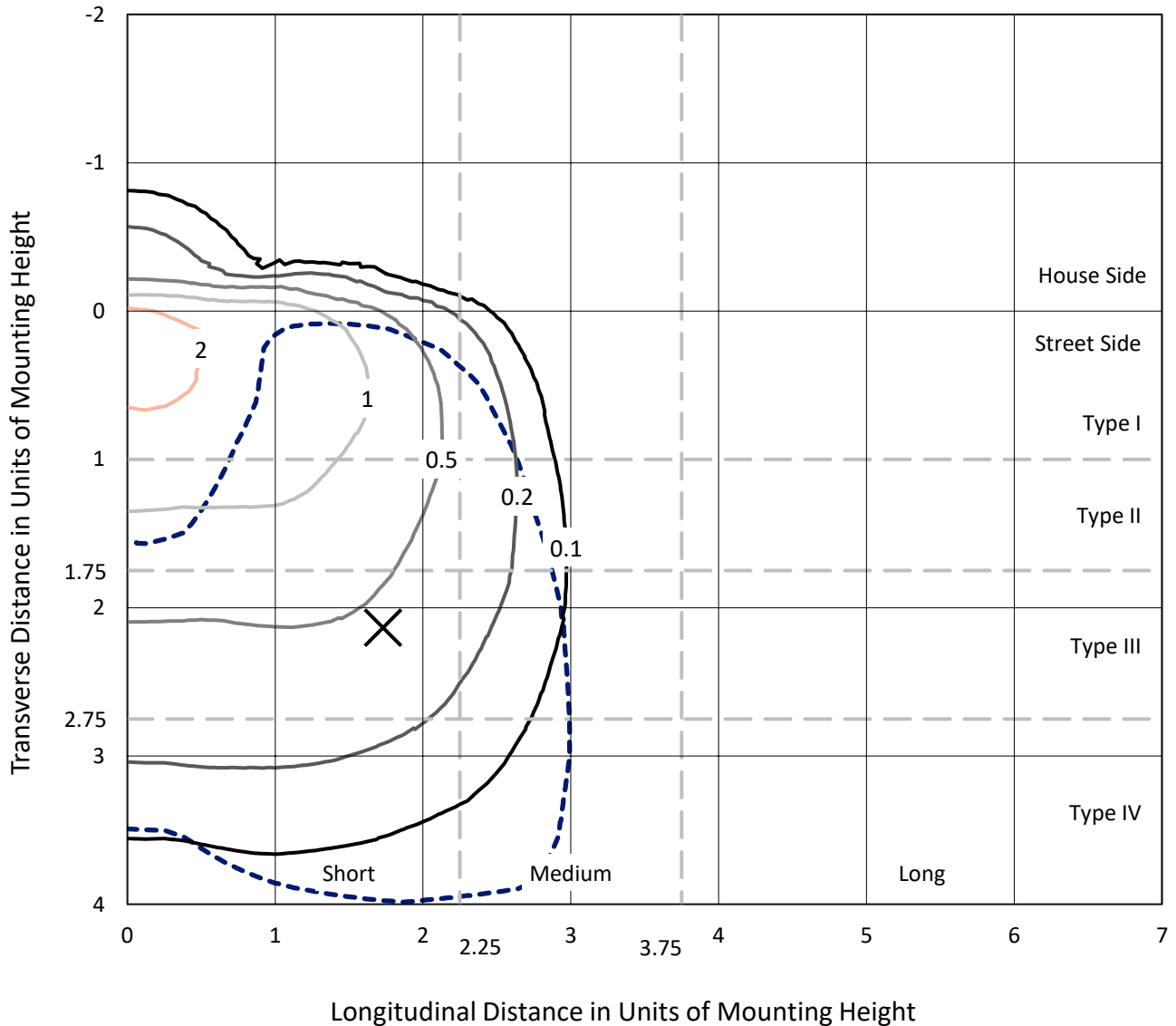
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

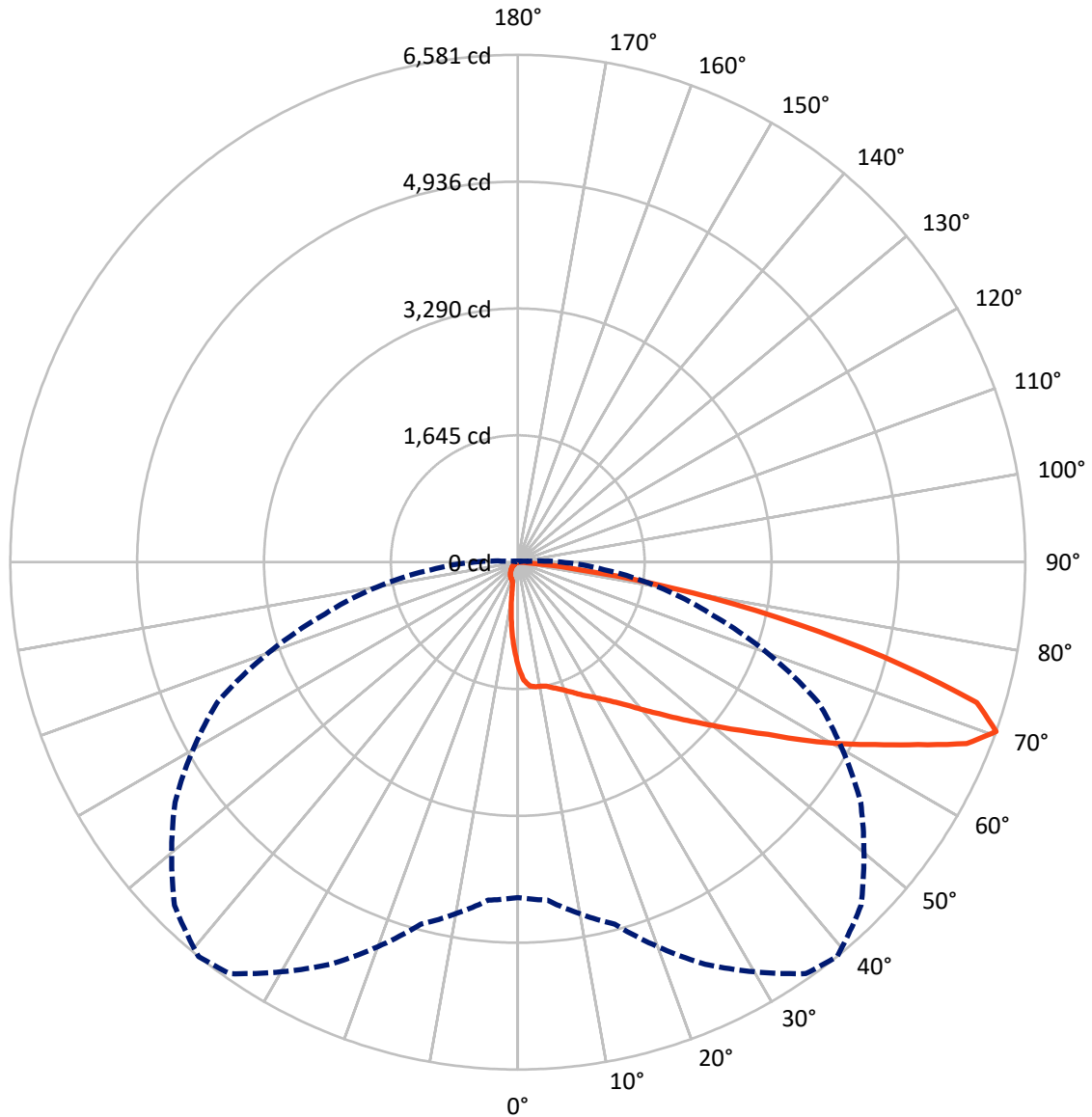
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	571.7	0.0	571.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	8196.3	0.0	8196.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	8768.0	0.0	8768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	1.3
10°-20°	303.2	3.5
20°-30°	508.0	5.8
30°-40°	787.9	9.0
40°-50°	1248.5	14.2
50°-60°	1830.2	20.9
60°-70°	2345.8	26.8
70°-80°	1474.1	16.8
80°-90°	153.6	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°	8768.0	100.0
0°-180°	8768.0	100.0

Coefficient of Utilization



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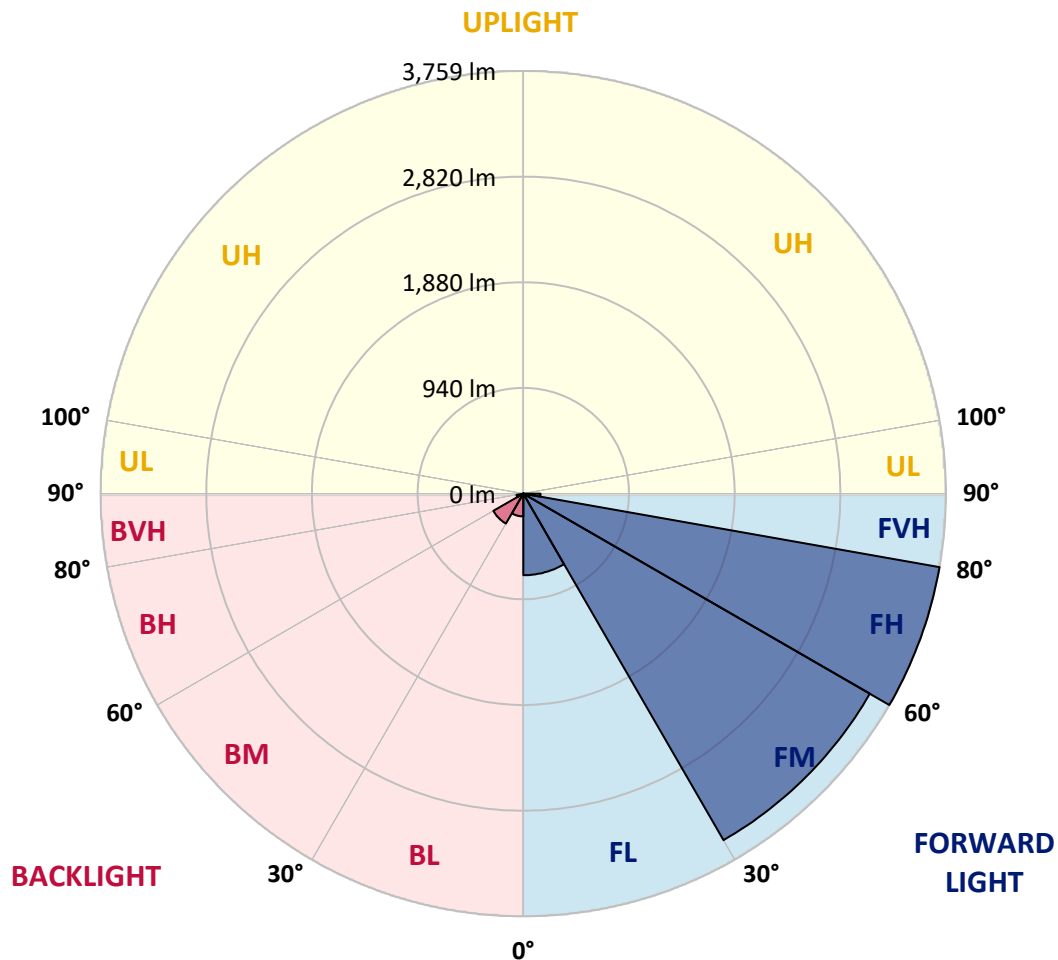
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.5	8.3			
FM (30°-60°)	3558.9	40.6			
FH (60°-80°)	3759.4	42.9			G2/5000
FVH (80°-90°)	152.4	1.7			G2/225
BL (0°-30°)	202.4	2.3	B1/500		
BM (30°-60°)	307.7	3.5	B1/1000		
BH (60°-80°)	60.5	0.7	B0/110		G0/110
BVH (80°-90°)	1.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1368.1	1368.1	1368.1	1368.1	1368.1	1368.1	1368.1	1368.1	1368.1	1368.1	1368.1
2.5°	1580.8	1575.5	1568.4	1560.2	1536.6	1532.5	1518.4	1488.3	1452.4	1422.9	1382.2
5°	1655.6	1658.6	1653.3	1638.5	1621.5	1611.4	1593.8	1547.2	1500.7	1441.2	1374.6
7.5°	1672.7	1678.6	1672.1	1658.0	1641.5	1630.9	1616.7	1576.7	1522.5	1454.7	1363.4
10°	1671.0	1678.0	1673.9	1660.9	1647.4	1637.4	1622.1	1590.2	1546.6	1475.3	1366.9
12.5°	1668.0	1677.4	1676.8	1670.4	1659.2	1651.5	1642.1	1613.8	1573.1	1505.4	1386.4
15°	1659.8	1671.5	1682.1	1687.5	1688.0	1688.0	1676.3	1646.2	1607.3	1544.9	1411.7
17.5°	1663.3	1676.8	1703.4	1718.7	1729.3	1728.1	1715.7	1683.3	1640.3	1585.5	1438.2
20°	1685.1	1703.4	1740.5	1771.1	1781.7	1778.2	1761.7	1724.0	1675.1	1620.3	1464.1
22.5°	1738.7	1755.2	1801.8	1837.7	1845.4	1835.9	1812.4	1761.1	1716.9	1658.0	1495.4
25°	1818.8	1838.3	1881.3	1908.4	1908.4	1903.1	1870.1	1810.0	1764.0	1710.4	1536.0
27.5°	1916.1	1932.6	1975.0	1999.1	1985.0	1969.7	1936.7	1864.2	1820.0	1776.4	1584.9
30°	2014.5	2025.1	2069.8	2080.4	2065.7	2046.3	2010.9	1938.4	1899.6	1866.0	1655.6
32.5°	2107.5	2130.5	2167.6	2165.3	2145.3	2135.8	2103.4	2026.2	2004.4	2000.9	1754.6
35°	2200.6	2218.3	2251.3	2259.6	2241.9	2240.1	2216.5	2159.4	2160.0	2183.0	1909.0
37.5°	2280.8	2296.7	2335.6	2353.8	2357.4	2366.2	2356.8	2319.1	2372.7	2435.7	2113.4
40°	2347.9	2370.3	2419.8	2451.6	2488.2	2520.6	2522.3	2530.6	2638.4	2746.8	2380.3
42.5°	2400.4	2431.6	2503.5	2562.4	2646.1	2687.3	2720.3	2765.7	2947.1	3109.2	2695.0
45°	2468.7	2504.7	2594.2	2686.7	2817.5	2885.3	2931.2	3052.6	3310.1	3531.0	3017.9
47.5°	2581.8	2600.7	2692.0	2827.0	2999.0	3095.6	3185.2	3369.0	3699.5	3897.5	3286.5
50°	2727.4	2739.8	2808.7	2996.1	3218.8	3346.0	3509.2	3725.5	4103.7	4201.5	3438.5
52.5°	2888.2	2892.4	2944.2	3182.2	3465.1	3625.3	3808.0	4074.9	4433.1	4418.4	3539.3
55°	3075.0	3069.1	3113.3	3384.3	3756.7	3939.9	4152.6	4432.5	4718.9	4572.1	3597.0
57.5°	3288.9	3273.0	3316.0	3652.4	4130.3	4349.4	4565.7	4741.2	4940.4	4701.2	3624.7
60°	3512.8	3481.0	3532.2	3953.5	4570.4	4778.4	4958.1	5005.2	5173.7	4803.7	3577.0
62.5°	3691.3	3691.9	3787.3	4274.0	5022.9	5204.9	5300.4	5342.8	5374.6	4781.3	3326.0
65°	3970.0	3979.4	4132.0	4718.9	5546.7	5704.6	5770.0	5632.1	5383.5	4503.2	2948.9
67.5°	4257.5	4287.6	4566.8	5331.6	6151.8	6279.0	6194.8	5688.1	5143.1	3868.6	2236.0
70°	4351.2	4400.7	4860.9	5753.5	6514.7	6580.7	6295.5	5427.1	4299.3	2586.6	1125.4
72.5°	3987.1	4067.2	4691.8	5599.7	6283.2	6226.0	5632.7	4551.5	2733.3	982.2	343.5
75°	2811.6	2847.0	3899.3	4645.2	5053.5	4891.5	4284.6	2934.2	1124.2	275.7	117.8
77.5°	1451.8	1434.7	2319.1	3082.1	3604.1	3436.2	2805.7	1518.9	426.0	114.9	73.1
80°	750.6	763.0	1003.4	1615.0	2200.1	2024.5	1496.0	704.1	226.8	63.6	56.0
82.5°	420.7	394.8	576.8	705.3	1028.7	806.6	573.9	498.5	99.0	38.3	53.0
85°	76.6	80.1	316.4	381.2	357.1	226.8	185.0	332.9	28.9	21.2	37.1
87.5°	1.2	1.2	61.3	109.6	69.5	31.8	58.3	47.7	5.9	8.2	6.5
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°	1368.1	1368.1	1368.1	1368.1	1368.1	1368.1	1368.1	1368.1	1368.1	1368.1	1368.1
2.5°	1361.6	1339.2	1297.4	1256.2	1203.7	1160.7	1131.8	1101.8	1071.2	1073.5	1080.6
5°	1338.1	1299.2	1216.7	1129.5	1045.8	970.4	896.2	829.6	802.5	777.7	778.9
7.5°	1314.5	1259.7	1138.9	1002.2	875.5	747.1	654.0	577.4	536.8	506.1	497.3
10°	1303.9	1231.4	1067.6	879.7	700.0	559.7	440.1	377.7	329.4	314.0	318.2
12.5°	1308.6	1217.3	1003.4	768.9	555.0	390.0	306.4	274.6	264.0	262.2	261.0
15°	1317.4	1207.3	940.4	646.3	407.7	289.9	257.5	251.6	250.4	249.2	249.8
17.5°	1329.2	1198.4	873.2	531.5	312.9	253.4	243.9	241.0	240.4	240.4	240.4
20°	1341.0	1188.4	798.4	428.9	261.0	239.2	233.3	231.6	231.0	231.0	230.4
22.5°	1354.6	1179.6	722.4	337.0	240.4	229.2	223.9	222.7	222.1	221.5	221.5
25°	1374.0	1168.4	641.6	275.7	227.4	219.8	214.5	213.3	212.7	210.3	210.9
27.5°	1399.9	1160.1	558.6	238.0	215.6	208.0	204.5	202.7	201.5	199.7	200.3
30°	1435.3	1153.1	470.2	217.4	202.1	195.6	192.1	190.9	189.7	188.0	188.0
32.5°	1496.6	1156.0	377.1	200.9	189.7	182.1	178.5	177.3	176.2	174.4	174.4
35°	1588.5	1173.1	301.7	186.8	175.0	167.3	163.8	163.8	162.0	159.7	159.1
37.5°	1738.7	1216.7	242.2	173.2	160.8	153.8	149.7	148.5	146.7	143.2	142.6
40°	1916.1	1284.4	203.9	159.7	147.9	140.8	137.3	133.7	129.0	125.5	124.9
42.5°	2138.8	1354.0	176.8	146.1	135.5	129.0	124.9	119.0	111.9	107.2	106.6
45°	2370.9	1417.6	158.5	133.7	123.7	118.4	113.7	104.3	95.4	89.6	89.0
47.5°	2544.1	1429.4	143.8	122.0	113.7	108.4	101.9	90.1	78.4	73.1	71.3
50°	2626.0	1372.2	128.4	110.2	103.7	97.8	89.6	76.0	63.0	56.6	55.4
52.5°	2654.9	1273.2	116.1	99.6	93.7	86.6	76.6	61.3	49.5	43.0	42.4
55°	2643.1	1148.3	104.9	89.6	81.9	73.6	63.6	48.9	36.5	31.2	30.0
57.5°	2581.3	989.3	93.7	79.5	70.1	61.9	50.7	36.5	24.7	20.0	19.4
60°	2414.5	772.4	82.5	68.3	59.5	50.7	40.1	25.9	15.3	11.2	11.2
62.5°	2132.9	573.3	71.9	57.2	50.1	40.7	28.3	16.5	8.2	5.9	5.3
65°	1782.3	423.0	60.1	48.3	41.8	31.8	20.0	10.0	4.1	1.8	1.2
67.5°	1243.8	261.0	50.1	39.5	34.2	23.0	12.4	4.1	1.8	0.0	0.0
70°	565.0	124.3	38.3	30.0	25.9	16.5	6.5	2.4	1.2	0.0	0.0
72.5°	175.6	65.4	27.1	21.8	17.7	10.6	3.5	1.8	1.2	0.0	0.0
75°	81.3	41.8	17.1	11.8	10.0	5.3	2.4	1.2	0.6	0.0	0.0
77.5°	60.7	32.4	10.0	6.5	5.3	3.5	1.8	1.2	0.6	0.0	0.0
80°	53.0	16.5	5.9	4.1	2.9	2.4	1.2	0.6	0.0	0.0	0.0
82.5°	47.7	8.2	3.5	2.4	1.8	1.2	0.6	0.6	0.0	0.0	0.0
85°	25.9	4.7	2.4	1.8	1.2	0.6	0.6	0.0	0.0	0.0	0.0
87.5°	4.7	2.4	1.8	1.2	1.2	0.6	0.6	0.6	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)