

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: P451389

Luminaire Tested: **GALN-SA2B-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451389
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-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 8572 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

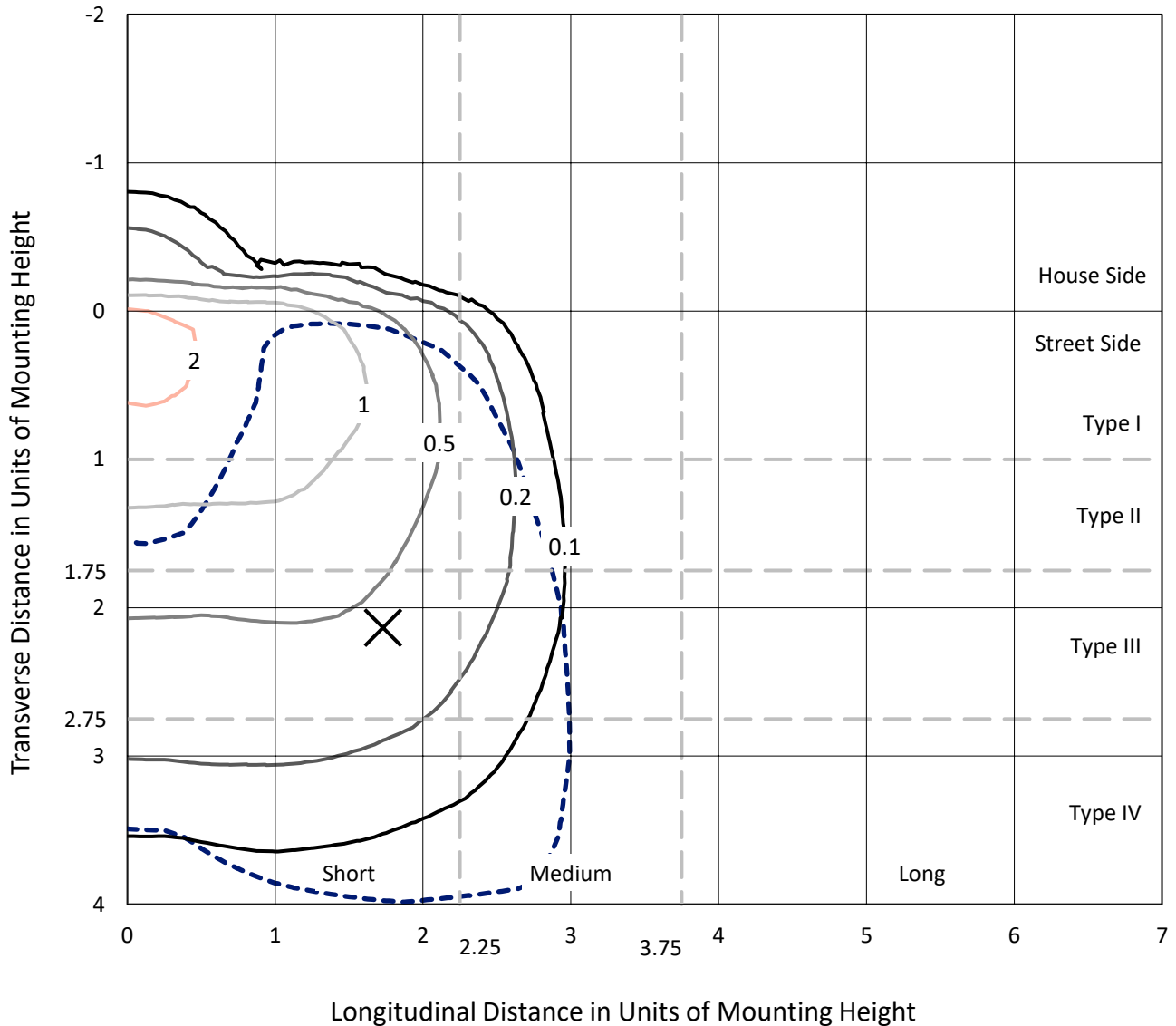
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451389
 CATALOG NUMBER: GALN-SA2B-730-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

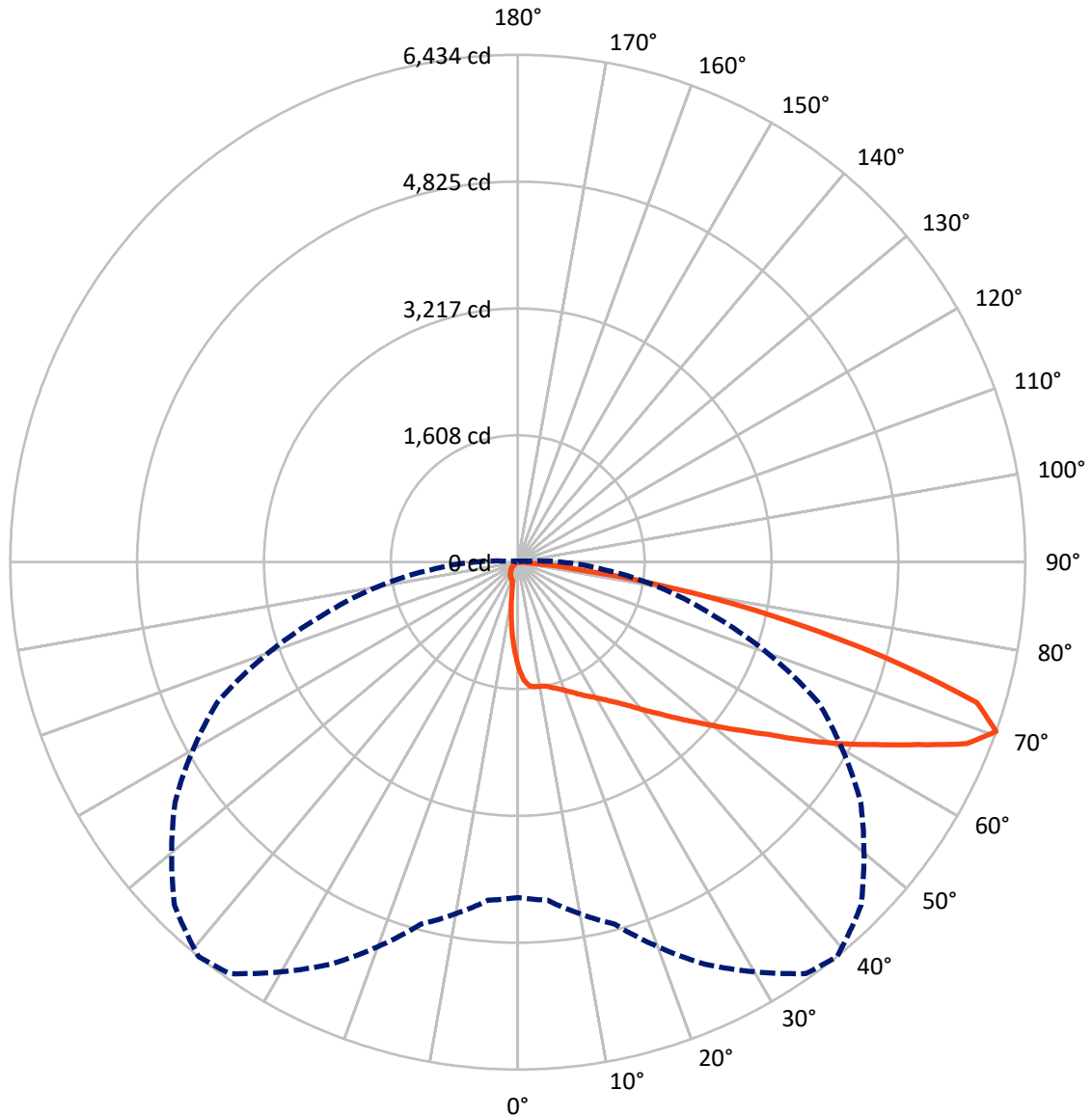
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P451389
CATALOG NUMBER: GALN-SA2B-730-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451389

CATALOG NUMBER: GALN-SA2B-730-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	558.9	0.0	558.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	8013.1	0.0	8013.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	8572.0	0.0	8572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	1.3
10°-20°	296.5	3.5
20°-30°	496.7	5.8
30°-40°	770.3	9.0
40°-50°	1220.6	14.2
50°-60°	1789.3	20.9
60°-70°	2293.4	26.8
70°-80°	1441.1	16.8
80°-90°	150.1	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°	8572.0	100.0
0°-180°	8572.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451389

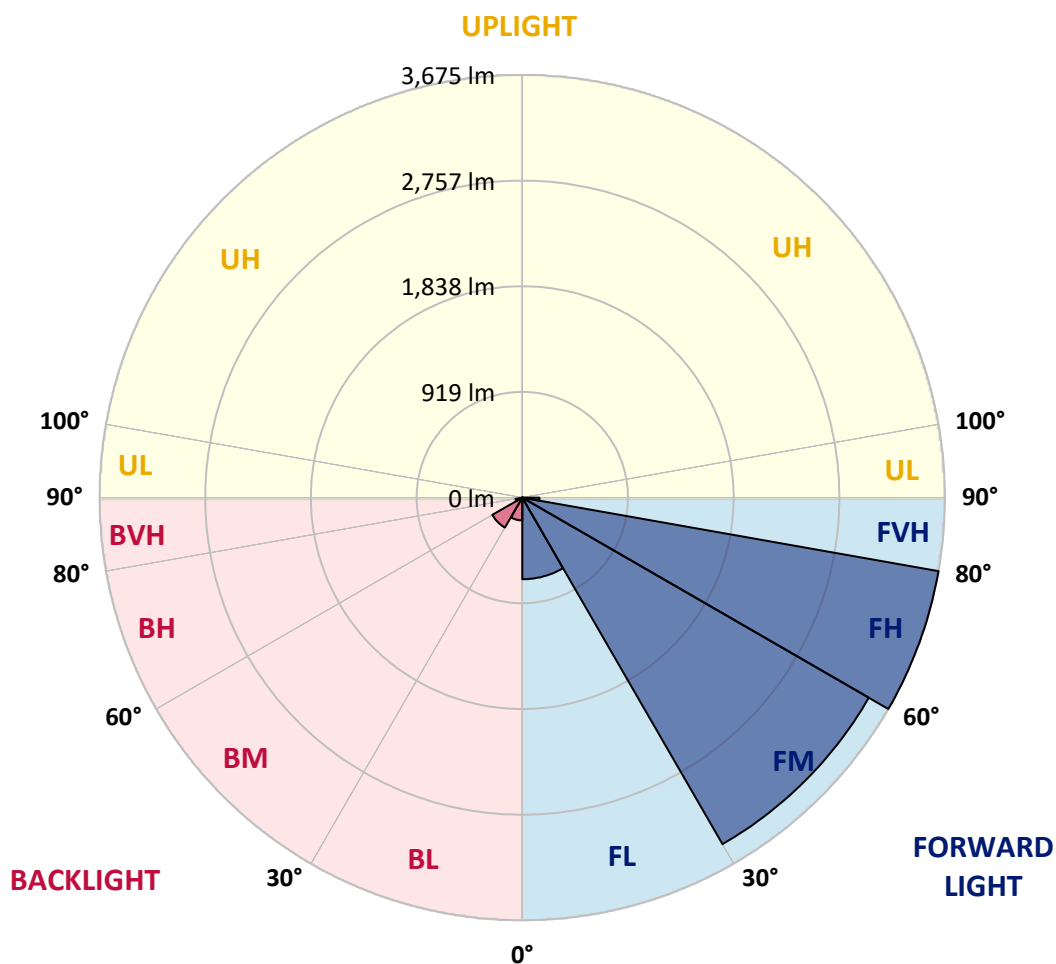
CATALOG NUMBER: GALN-SA2B-730-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	709.3	8.3			
FM	(30°-60°)	3479.4	40.6			
FH	(60°-80°)	3675.4	42.9			G2/5000
FVH	(80°-90°)	149.0	1.7			G2/225
BL	(0°-30°)	197.9	2.3	B1/500		
BM	(30°-60°)	300.8	3.5	B1/1000		
BH	(60°-80°)	59.1	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





REPORT NUMBER: P451389

CATALOG NUMBER: GALN-SA2B-730-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5
2.5°	1545.5	1540.3	1533.4	1525.3	1502.3	1498.2	1484.4	1455.0	1419.9	1391.1	1351.4
5°	1618.6	1621.5	1616.3	1601.9	1585.2	1575.4	1558.1	1512.6	1467.1	1409.0	1343.9
7.5°	1635.3	1641.1	1634.8	1620.9	1604.8	1594.4	1580.6	1541.4	1488.4	1422.2	1332.9
10°	1633.6	1640.5	1636.5	1623.8	1610.6	1600.8	1585.8	1554.7	1512.1	1442.4	1336.4
12.5°	1630.7	1639.9	1639.4	1633.0	1622.1	1614.6	1605.4	1577.7	1538.0	1471.7	1355.4
15°	1622.7	1634.2	1644.5	1649.7	1650.3	1650.3	1638.8	1609.4	1571.4	1510.3	1380.2
17.5°	1626.1	1639.4	1665.3	1680.3	1690.6	1689.5	1677.4	1645.7	1603.6	1550.1	1406.1
20°	1647.4	1665.3	1701.6	1731.5	1741.9	1738.4	1722.3	1685.4	1637.6	1584.1	1431.4
22.5°	1699.8	1716.0	1761.5	1796.6	1804.1	1794.9	1771.8	1721.7	1678.5	1620.9	1461.9
25°	1778.2	1797.2	1839.2	1865.7	1865.7	1860.6	1828.3	1769.5	1724.6	1672.2	1501.7
27.5°	1873.2	1889.4	1930.8	1954.4	1940.6	1925.6	1893.4	1822.5	1779.3	1736.7	1549.5
30°	1969.4	1979.8	2023.6	2033.9	2019.5	2000.5	1966.0	1895.1	1857.1	1824.3	1618.6
32.5°	2060.4	2082.9	2119.2	2116.9	2097.3	2088.1	2056.4	1980.9	1959.6	1956.2	1715.4
35°	2151.4	2168.7	2201.0	2209.0	2191.8	2190.0	2167.0	2111.1	2111.7	2134.2	1866.3
37.5°	2229.8	2245.3	2283.4	2301.2	2304.7	2313.3	2304.1	2267.2	2319.6	2381.3	2066.2
40°	2295.5	2317.3	2365.7	2396.8	2432.5	2464.2	2466.0	2474.0	2579.4	2685.4	2327.1
42.5°	2346.7	2377.2	2447.5	2505.1	2586.9	2627.2	2659.5	2703.9	2881.3	3039.7	2634.7
45°	2413.5	2448.7	2536.2	2626.7	2754.5	2820.8	2865.7	2984.4	3236.1	3452.1	2950.4
47.5°	2524.1	2542.6	2631.9	2763.8	2932.0	3026.4	3114.0	3293.7	3616.9	3810.4	3213.1
50°	2666.4	2678.5	2745.9	2929.1	3146.8	3271.2	3430.8	3642.2	4012.0	4107.6	3361.7
52.5°	2823.7	2827.7	2878.4	3111.1	3387.6	3544.3	3722.8	3983.8	4334.0	4319.6	3460.2
55°	3006.3	3000.5	3043.7	3308.7	3672.7	3851.9	4059.8	4333.4	4613.4	4469.9	3516.6
57.5°	3215.4	3199.8	3241.9	3570.8	4037.9	4252.2	4463.6	4635.3	4830.0	4596.1	3543.7
60°	3434.3	3403.1	3453.3	3865.1	4468.2	4671.5	4847.2	4893.3	5058.1	4696.3	3497.0
62.5°	3608.8	3609.4	3702.7	4178.5	4910.6	5088.6	5181.9	5223.4	5254.5	4674.4	3251.7
65°	3881.2	3890.5	4039.7	4613.4	5422.7	5577.1	5641.0	5506.2	5263.1	4402.5	2883.0
67.5°	4162.3	4191.7	4464.8	5212.4	6014.3	6138.7	6056.3	5560.9	5028.1	3782.2	2186.0
70°	4253.9	4302.3	4752.2	5624.9	6369.1	6433.6	6154.8	5305.8	4203.2	2528.7	1100.2
72.5°	3897.9	3976.3	4586.9	5474.5	6142.7	6086.8	5506.8	4449.8	2672.2	960.2	335.8
75°	2748.8	2783.3	3812.1	4541.4	4940.6	4782.1	4188.8	2868.6	1099.1	269.6	115.2
77.5°	1419.3	1402.6	2267.2	3013.2	3523.5	3359.4	2743.0	1485.0	416.5	112.3	71.4
80°	733.9	746.0	981.0	1578.9	2150.9	1979.2	1462.5	688.3	221.8	62.2	54.7
82.5°	411.3	385.9	563.9	689.5	1005.7	788.6	561.0	487.3	96.8	37.4	51.8
85°	74.9	78.3	309.3	372.7	349.1	221.8	180.9	325.5	28.2	20.7	36.3
87.5°	1.2	1.2	59.9	107.1	68.0	31.1	57.0	46.7	5.8	8.1	6.3
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°	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5
2.5°	1331.2	1309.3	1268.4	1228.1	1176.8	1134.8	1106.5	1077.2	1047.2	1049.5	1056.4
5°	1308.1	1270.1	1189.5	1104.2	1022.4	948.7	876.1	811.0	784.5	760.4	761.5
7.5°	1285.1	1231.5	1113.5	979.8	856.0	730.4	639.4	564.5	524.8	494.8	486.2
10°	1274.7	1203.9	1043.8	860.0	684.3	547.2	430.3	369.2	322.0	307.0	311.1
12.5°	1279.3	1190.1	981.0	751.7	542.6	381.3	299.5	268.4	258.1	256.3	255.2
15°	1288.0	1180.3	919.3	631.9	398.6	283.4	251.7	246.0	244.8	243.7	244.2
17.5°	1299.5	1171.6	853.7	519.6	305.9	247.7	238.5	235.6	235.0	235.0	235.0
20°	1311.0	1161.8	780.5	419.3	255.2	233.9	228.1	226.4	225.8	225.8	225.2
22.5°	1324.3	1153.2	706.2	329.5	235.0	224.1	218.9	217.7	217.2	216.6	216.6
25°	1343.3	1142.3	627.3	269.6	222.3	214.9	209.7	208.5	207.9	205.6	206.2
27.5°	1368.6	1134.2	546.1	232.7	210.8	203.3	199.9	198.2	197.0	195.3	195.8
30°	1403.2	1127.3	459.7	212.6	197.6	191.2	187.8	186.6	185.5	183.8	183.8
32.5°	1463.1	1130.2	368.7	196.4	185.5	178.0	174.5	173.4	172.2	170.5	170.5
35°	1553.0	1146.9	294.9	182.6	171.1	163.6	160.1	160.1	158.4	156.1	155.5
37.5°	1699.8	1189.5	236.7	169.4	157.3	150.3	146.3	145.2	143.4	140.0	139.4
40°	1873.2	1255.7	199.3	156.1	144.6	137.7	134.2	130.8	126.1	122.7	122.1
42.5°	2091.0	1323.7	172.8	142.9	132.5	126.1	122.1	116.4	109.4	104.8	104.3
45°	2317.9	1385.9	155.0	130.8	121.0	115.8	111.2	102.0	93.3	87.6	87.0
47.5°	2487.3	1397.4	140.5	119.2	111.2	106.0	99.7	88.1	76.6	71.4	69.7
50°	2567.3	1341.6	125.6	107.7	101.4	95.6	87.6	74.3	61.6	55.3	54.1
52.5°	2595.6	1244.8	113.5	97.3	91.6	84.7	74.9	59.9	48.4	42.0	41.5
55°	2584.0	1122.7	102.5	87.6	80.1	72.0	62.2	47.8	35.7	30.5	29.4
57.5°	2523.6	967.1	91.6	77.8	68.5	60.5	49.5	35.7	24.2	19.6	19.0
60°	2360.5	755.2	80.6	66.8	58.2	49.5	39.2	25.3	15.0	10.9	10.9
62.5°	2085.2	560.5	70.3	55.9	49.0	39.7	27.6	16.1	8.1	5.8	5.2
65°	1742.5	413.6	58.8	47.2	40.9	31.1	19.6	9.8	4.0	1.7	1.2
67.5°	1216.0	255.2	49.0	38.6	33.4	22.5	12.1	4.0	1.7	0.0	0.0
70°	552.4	121.5	37.4	29.4	25.3	16.1	6.3	2.3	1.2	0.0	0.0
72.5°	171.7	63.9	26.5	21.3	17.3	10.4	3.5	1.7	1.2	0.0	0.0
75°	79.5	40.9	16.7	11.5	9.8	5.2	2.3	1.2	0.6	0.0	0.0
77.5°	59.3	31.7	9.8	6.3	5.2	3.5	1.7	1.2	0.6	0.0	0.0
80°	51.8	16.1	5.8	4.0	2.9	2.3	1.2	0.6	0.0	0.0	0.0
82.5°	46.7	8.1	3.5	2.3	1.7	1.2	0.6	0.6	0.0	0.0	0.0
85°	25.3	4.6	2.3	1.7	1.2	0.6	0.6	0.0	0.0	0.0	0.0
87.5°	4.6	2.3	1.7	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)