

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: P451460

Luminaire Tested: **GALN-SA2B-750-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451460  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8959 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

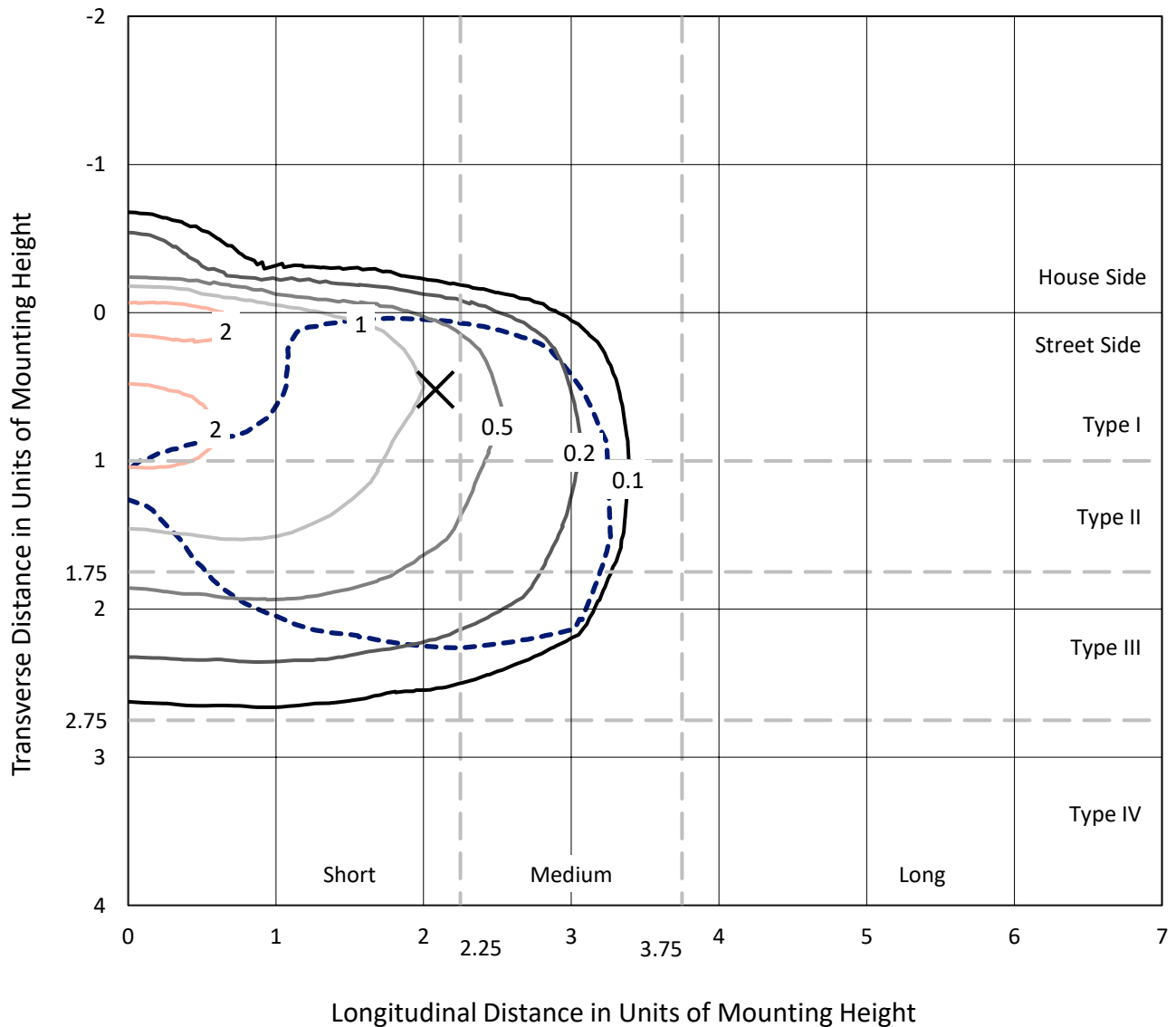
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

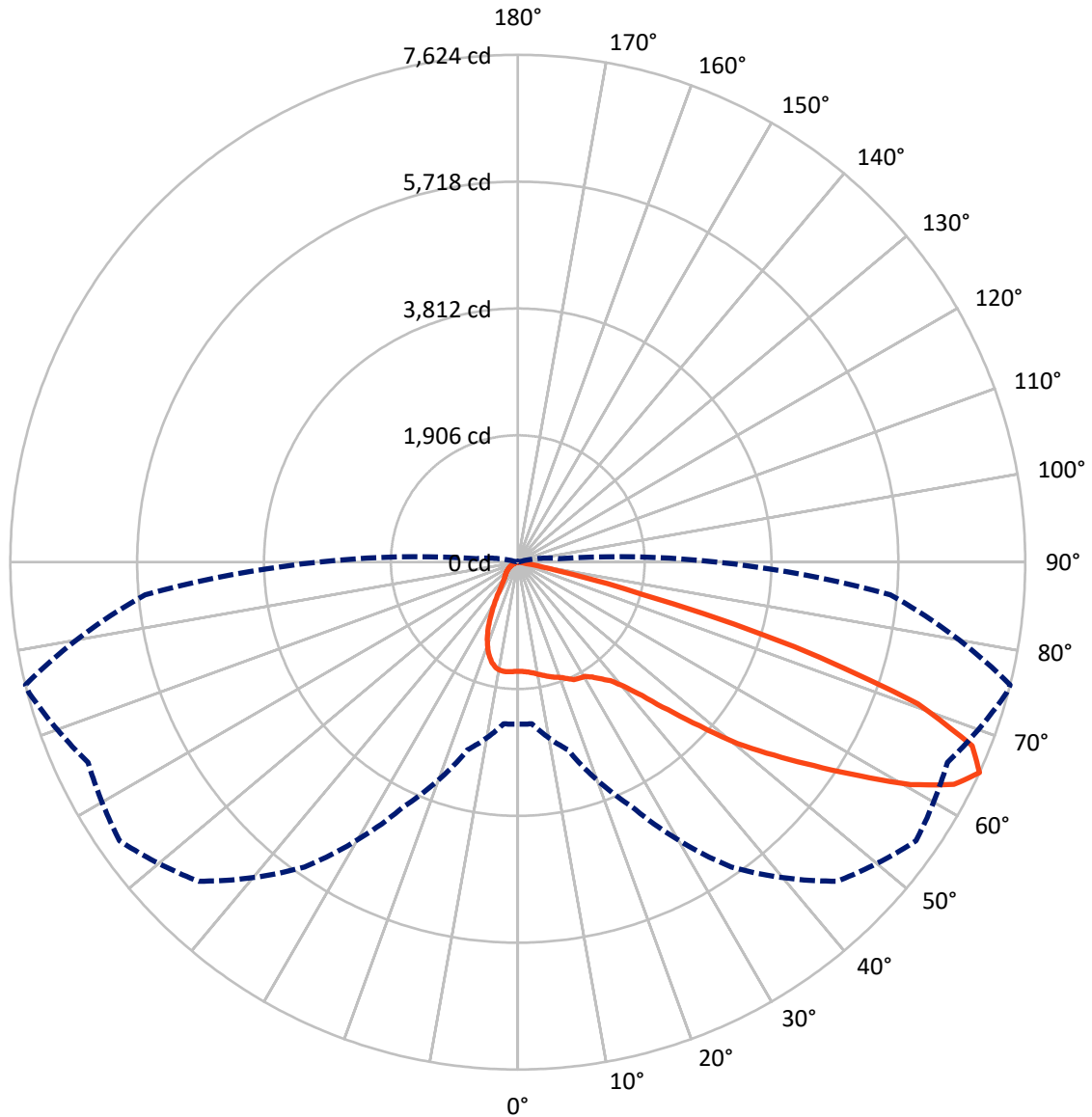
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	647.0	0.0	647.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	8312.0	0.0	8312.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	8959.0	0.0	8959.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.0	1.5
10°-20°	300.6	3.4
20°-30°	484.4	5.4
30°-40°	842.2	9.4
40°-50°	1391.7	15.5
50°-60°	2150.0	24.0
60°-70°	2625.4	29.3
70°-80°	996.4	11.1
80°-90°	33.3	0.4
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°	8959.0	100.0
0°-180°	8959.0	100.0

**Coefficient of Utilization**



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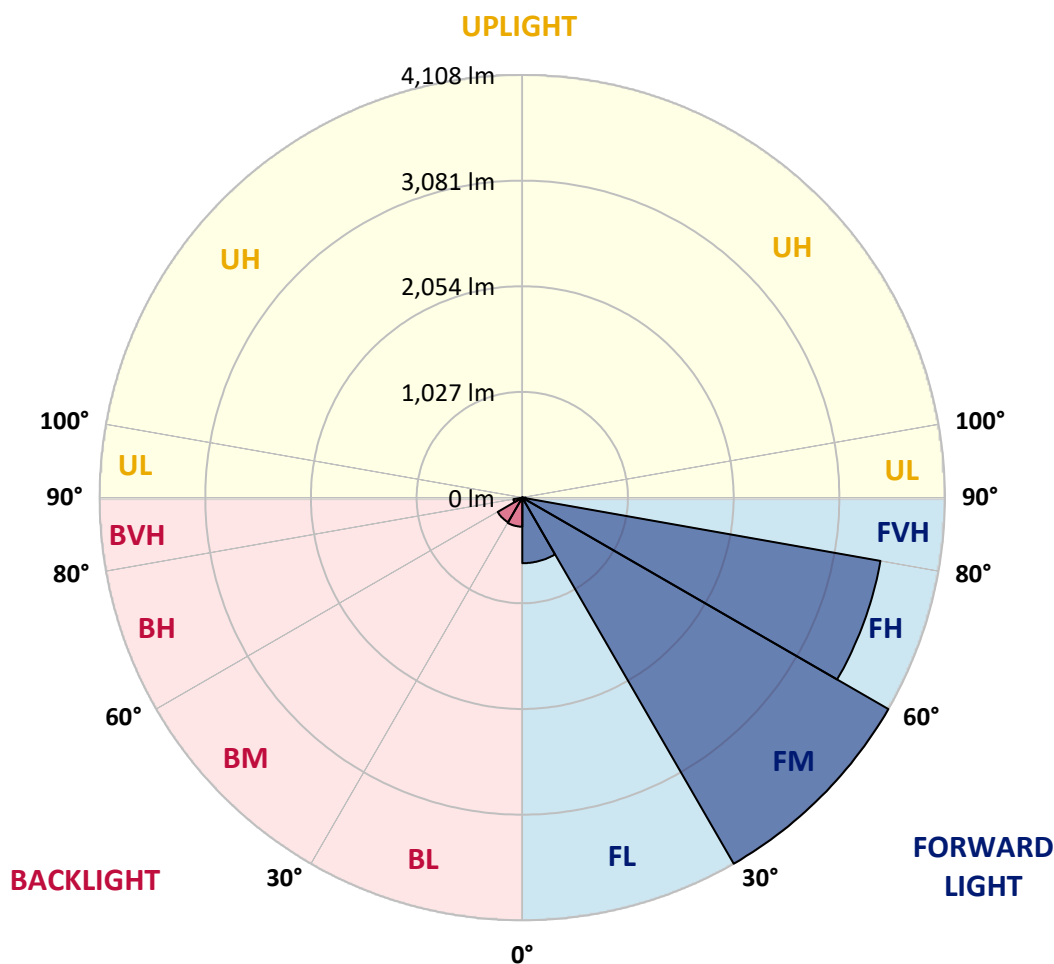
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	637.3	7.1			
FM (30°-60°)	4107.8	45.9			
FH (60°-80°)	3534.0	39.4			G2/5000
FVH (80°-90°)	32.8	0.4			G1/100
BL (0°-30°)	282.7	3.2	B1/500		
BM (30°-60°)	276.1	3.1	B1/1000		
BH (60°-80°)	87.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9
2.5°	1566.1	1566.8	1570.6	1580.1	1594.6	1606.6	1616.7	1633.2	1644.6	1645.8	1649.6
5°	1458.0	1450.4	1458.0	1482.7	1504.8	1538.3	1579.4	1620.5	1657.2	1659.8	1677.5
7.5°	1336.5	1342.9	1354.9	1380.2	1421.9	1473.2	1532.6	1606.0	1675.6	1681.9	1716.7
10°	1213.2	1227.1	1246.7	1285.3	1343.5	1409.9	1490.9	1595.9	1704.7	1713.5	1773.6
12.5°	1099.3	1105.7	1129.7	1181.6	1253.7	1347.3	1459.2	1590.2	1736.9	1747.7	1834.3
15°	1012.0	1020.3	1041.1	1088.0	1168.3	1288.5	1433.3	1588.3	1768.6	1783.7	1895.1
17.5°	995.6	1000.7	1009.5	1041.1	1111.4	1241.7	1409.9	1587.7	1798.9	1817.3	1951.4
20°	1063.3	1058.9	1050.0	1046.8	1085.4	1205.6	1392.8	1592.7	1828.0	1848.9	2010.8
22.5°	1232.8	1238.5	1186.6	1125.3	1112.6	1199.9	1390.3	1616.7	1874.2	1898.9	2077.2
25°	1592.7	1549.1	1468.1	1321.4	1210.7	1234.7	1418.8	1673.7	1928.0	1955.2	2137.3
27.5°	1990.6	1977.3	1851.4	1609.8	1403.6	1308.1	1469.4	1717.3	1945.7	1973.5	2171.5
30°	2381.5	2397.3	2253.1	1986.1	1683.8	1444.1	1516.8	1733.8	1961.5	1990.6	2215.1
32.5°	2743.9	2762.9	2636.4	2372.0	2014.0	1679.4	1598.4	1797.7	2027.9	2057.6	2287.9
35°	3029.2	3031.7	2936.2	2725.6	2374.5	1965.3	1774.9	1909.6	2117.7	2152.5	2365.0
37.5°	3291.1	3287.3	3175.3	2993.8	2675.0	2249.3	1996.9	2038.6	2220.2	2256.2	2476.4
40°	3485.2	3487.8	3451.7	3280.9	2955.2	2511.8	2172.7	2159.5	2392.2	2448.5	2638.3
42.5°	3614.9	3638.3	3656.0	3569.4	3307.5	2835.0	2442.8	2418.2	2690.8	2737.6	2867.3
45°	3719.9	3761.7	3850.2	3845.8	3645.9	3231.6	2813.5	2762.9	3113.9	3163.9	3158.9
47.5°	3796.4	3838.8	3985.6	4074.1	3964.1	3616.2	3279.7	3236.0	3619.3	3673.7	3480.8
50°	3835.7	3886.3	4073.5	4244.9	4212.7	3986.8	3811.0	3813.5	4229.7	4282.2	3854.0
52.5°	3743.9	3809.7	4120.3	4429.0	4491.6	4341.7	4308.8	4392.3	4773.1	4818.0	4191.1
55°	3451.1	3533.9	4056.4	4585.8	4814.8	4760.4	4874.3	5001.4	5367.0	5396.1	4537.1
57.5°	3265.8	3353.7	3867.9	4719.3	5203.2	5286.7	5467.0	5559.9	5979.9	6054.0	4934.4
60°	3109.5	3178.5	3713.0	4747.8	5597.9	5930.6	6105.8	6202.0	6736.5	6784.5	5371.5
62.5°	2849.6	2928.6	3451.1	4549.2	5796.5	6446.1	6809.2	6766.2	7321.5	7355.1	5639.6
65°	2431.4	2438.4	2919.8	4050.1	5591.6	6780.7	7303.2	7122.9	7601.1	7623.9	5618.8
67.5°	1814.7	1881.8	2246.1	3183.5	4723.1	6494.8	7463.2	7132.4	7424.6	7361.4	5172.8
70°	1168.9	1220.2	1522.5	2207.5	3405.5	5420.2	6932.5	6643.5	6516.3	6375.9	4234.2
72.5°	539.5	605.3	904.5	1261.3	2019.7	3861.0	5627.6	5397.4	4690.2	4343.6	2691.4
75°	235.3	251.7	446.6	665.4	946.9	2041.8	3710.4	3350.5	2118.3	1934.9	1077.2
77.5°	143.6	154.3	234.0	356.7	371.9	778.0	1998.8	1461.8	654.7	577.5	292.2
80°	97.4	109.4	170.2	186.6	127.1	217.0	750.2	390.3	132.2	126.5	62.6
82.5°	47.4	60.1	125.9	104.4	55.0	69.6	218.2	83.5	38.6	36.1	22.1
85°	7.0	12.0	70.8	68.3	24.7	16.4	38.6	20.9	13.3	12.7	10.1
87.5°	0.0	0.0	24.0	10.8	2.5	2.5	4.4	4.4	5.1	4.4	5.1
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°	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9
2.5°	1651.5	1654.7	1642.7	1625.6	1607.3	1588.9	1563.0	1539.6	1525.7	1533.9	1513.6
5°	1681.3	1678.7	1647.1	1595.2	1526.3	1443.4	1361.2	1291.0	1268.2	1234.1	1230.3
7.5°	1722.4	1715.4	1648.4	1529.5	1373.9	1218.3	1066.4	965.9	908.3	859.6	860.9
10°	1779.9	1759.7	1633.8	1413.7	1157.5	922.9	729.3	596.5	538.9	520.6	506.0
12.5°	1839.4	1800.2	1593.3	1257.5	901.4	630.6	443.4	362.4	327.0	315.6	314.4
15°	1892.5	1830.5	1522.5	1069.6	655.3	402.9	302.3	275.8	271.4	272.0	271.4
17.5°	1945.0	1854.6	1424.5	870.4	445.3	289.1	260.0	253.6	255.5	258.1	257.4
20°	1988.7	1859.6	1299.2	664.2	315.0	253.6	244.2	242.9	244.8	246.7	246.7
22.5°	2036.1	1863.4	1150.6	459.8	257.4	235.9	230.9	230.9	233.4	235.9	236.6
25°	2071.5	1842.6	972.8	330.2	227.1	218.9	216.3	217.0	219.5	220.8	220.1
27.5°	2077.2	1783.7	784.3	253.0	206.2	198.0	195.5	198.0	194.8	196.7	195.5
30°	2082.3	1709.1	593.3	213.2	187.2	174.6	170.8	167.0	164.5	161.3	160.7
32.5°	2098.1	1621.2	433.3	191.7	169.5	155.6	146.7	136.0	127.8	125.2	124.6
35°	2105.1	1515.5	318.2	174.6	153.7	138.5	122.7	107.5	95.5	91.1	94.2
37.5°	2131.6	1413.1	246.7	161.9	139.8	120.8	100.6	81.6	70.2	67.7	68.9
40°	2186.0	1301.7	206.8	151.2	127.8	104.4	79.7	61.4	53.8	51.2	50.6
42.5°	2273.3	1191.1	184.1	141.1	115.8	87.9	62.6	48.1	41.7	39.8	39.8
45°	2379.6	1084.8	168.3	130.3	103.1	70.8	49.3	38.6	34.8	33.5	33.5
47.5°	2519.4	991.8	155.0	119.5	89.2	56.3	39.8	33.5	31.0	31.6	32.3
50°	2661.1	922.9	140.4	107.5	73.4	46.2	34.2	29.7	29.1	29.7	29.7
52.5°	2768.0	882.4	120.8	91.1	57.6	38.6	30.4	27.8	27.2	25.9	25.9
55°	2912.2	873.5	96.1	74.0	45.5	32.3	27.2	25.3	23.4	22.1	21.5
57.5°	3097.5	883.6	74.0	57.6	35.4	26.6	24.0	20.9	18.3	15.8	15.8
60°	3212.6	860.9	57.6	44.3	25.9	21.5	18.3	15.2	12.0	10.1	9.5
62.5°	3175.9	764.7	45.5	32.9	18.3	15.8	12.0	10.1	7.0	5.1	4.4
65°	2986.8	617.3	36.7	22.8	13.3	9.5	6.3	6.3	3.2	0.6	0.0
67.5°	2614.2	457.3	29.1	15.2	7.6	4.4	3.2	1.9	0.0	0.0	0.0
70°	2127.8	330.2	22.8	9.5	4.4	3.2	1.3	0.6	0.0	0.0	0.0
72.5°	1351.1	189.1	17.7	5.7	3.2	1.3	0.0	0.0	0.0	0.0	0.0
75°	522.5	74.0	12.0	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	148.0	34.8	7.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	38.6	15.2	3.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.3	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.8	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	0.6	0.0	0.0	0.0	0.0	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)