

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: P451721

Luminaire Tested: **GALN-SA2C-760-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451721
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-SA2C-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1050mA 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: 11069 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

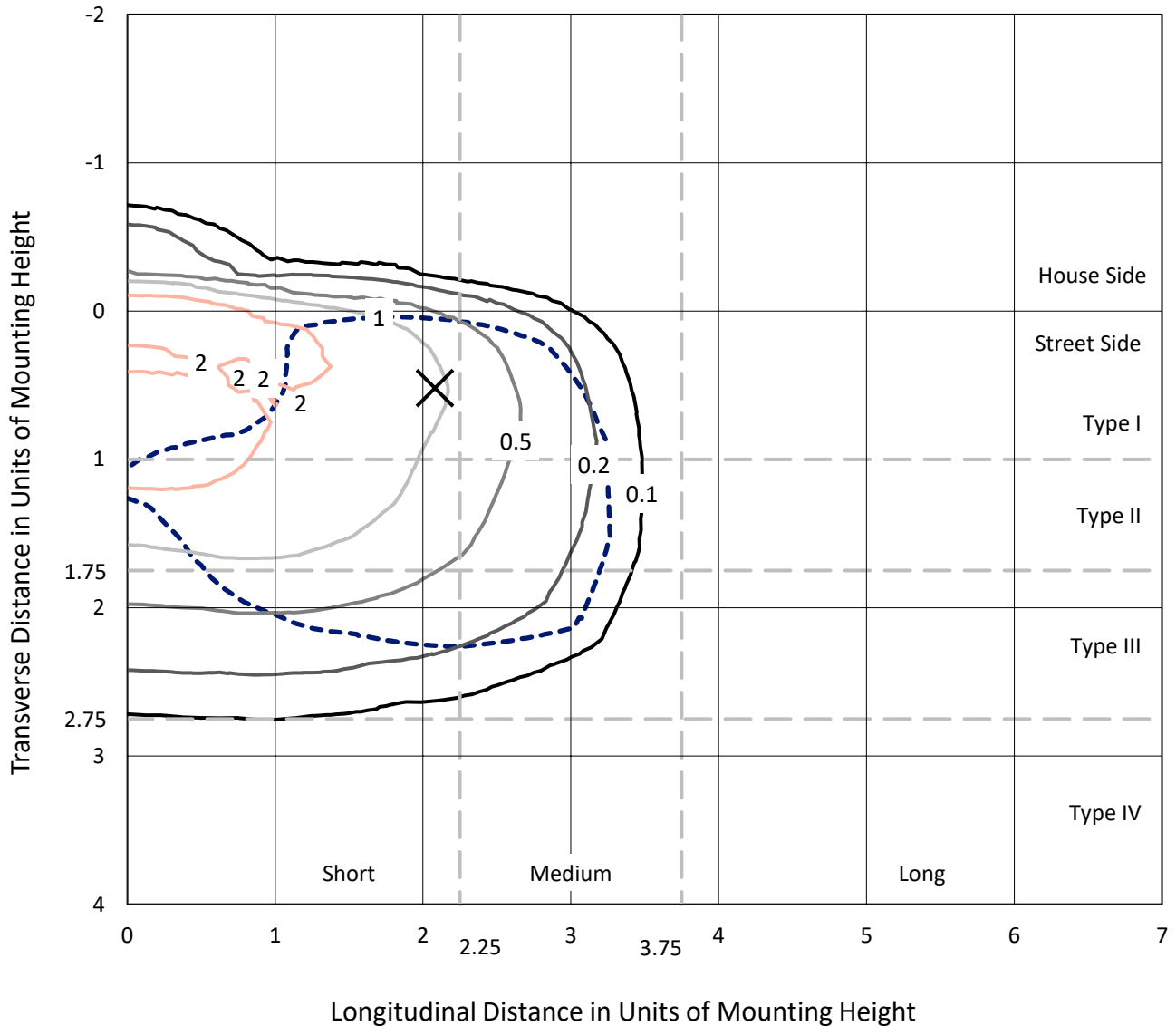
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

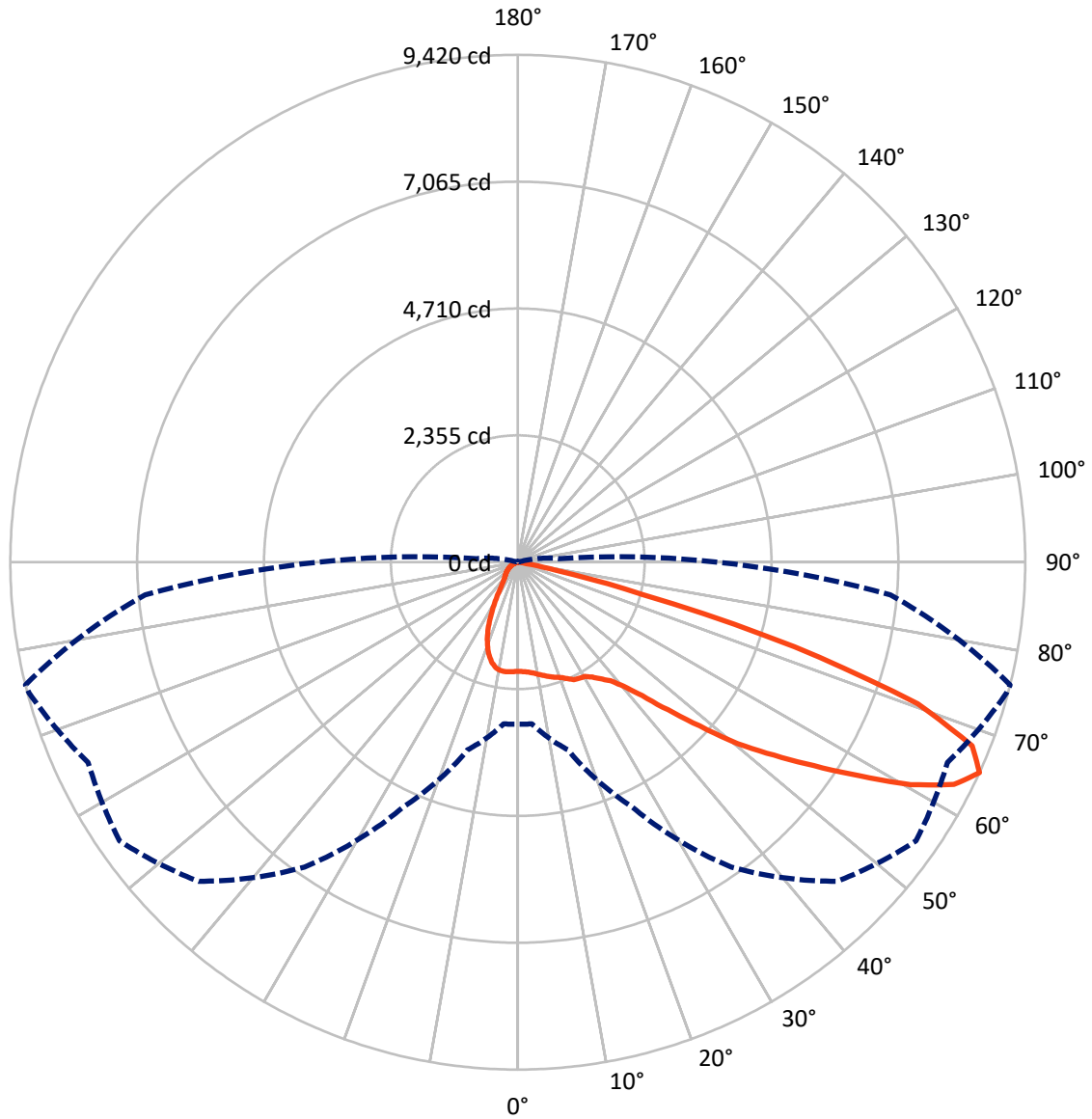
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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
House Side	Lumens	799.4	0.0	799.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10269.6	0.0	10269.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	11069.0	0.0	11069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	1.5
10°-20°	371.4	3.4
20°-30°	598.5	5.4
30°-40°	1040.6	9.4
40°-50°	1719.5	15.5
50°-60°	2656.3	24.0
60°-70°	3243.7	29.3
70°-80°	1231.1	11.1
80°-90°	41.1	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°	11069.0	100.0
0°-180°	11069.0	100.0

Coefficient of Utilization



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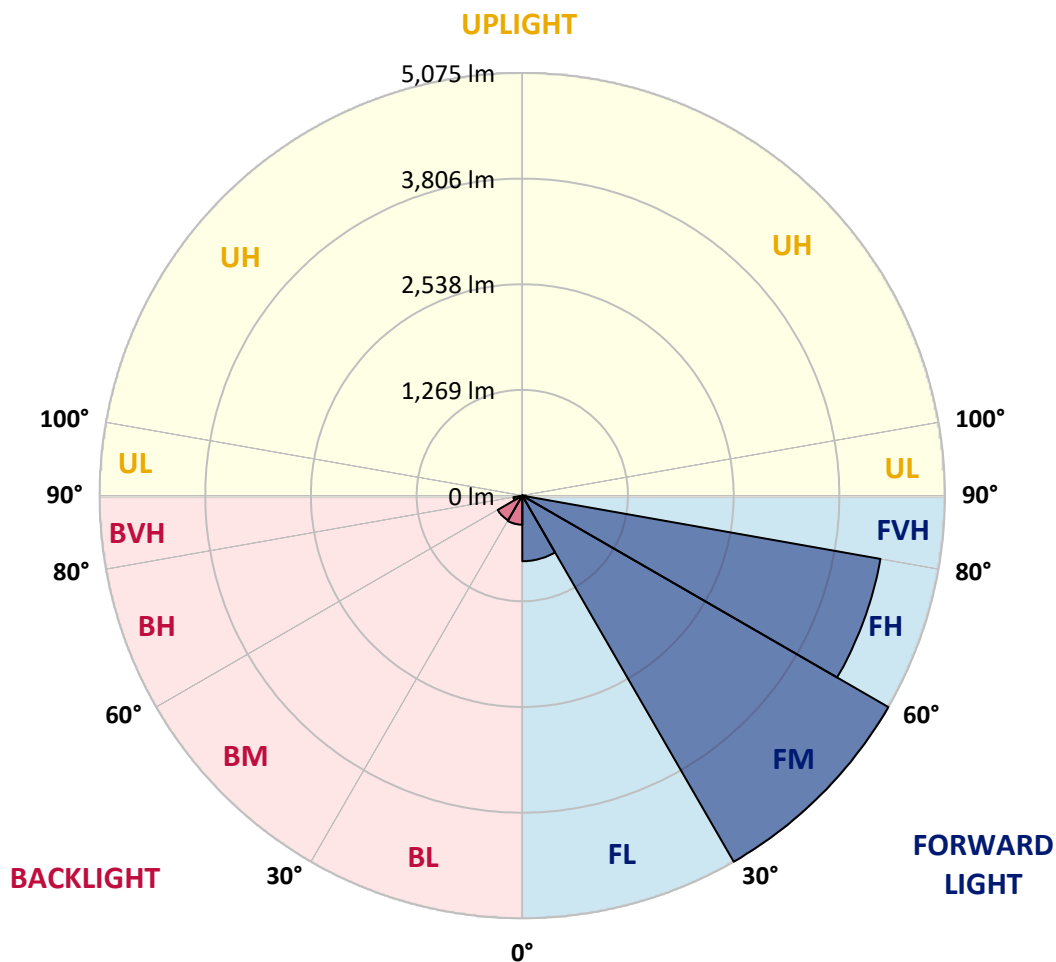
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	787.4	7.1			
FM	(30°-60°)	5075.3	45.9			
FH	(60°-80°)	4366.3	39.4			G2/5000
FVH	(80°-90°)	40.5	0.4			G1/100
BL	(0°-30°)	349.2	3.2	B1/500		
BM	(30°-60°)	341.1	3.1	B1/1000		
BH	(60°-80°)	108.5	1.0	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9
2.5°	1935.0	1935.8	1940.5	1952.2	1970.2	1985.0	1997.5	2017.8	2031.9	2033.5	2038.2
5°	1801.4	1792.0	1801.4	1831.8	1859.2	1900.6	1951.4	2002.2	2047.5	2050.7	2072.5
7.5°	1651.3	1659.1	1674.0	1705.2	1756.8	1820.1	1893.6	1984.2	2070.2	2078.0	2121.0
10°	1498.9	1516.1	1540.3	1588.0	1659.9	1742.0	1842.0	1971.7	2106.1	2117.1	2191.3
12.5°	1358.3	1366.1	1395.8	1459.8	1548.9	1664.6	1802.9	1964.7	2146.0	2159.3	2266.4
15°	1250.4	1260.6	1286.4	1344.2	1443.4	1591.9	1770.9	1962.4	2185.1	2203.8	2341.4
17.5°	1230.1	1236.3	1247.3	1286.4	1373.1	1534.1	1742.0	1961.6	2222.6	2245.3	2410.9
20°	1313.7	1308.2	1297.3	1293.4	1341.1	1489.5	1720.9	1967.8	2258.5	2284.3	2484.4
22.5°	1523.1	1530.2	1466.1	1390.3	1374.7	1482.5	1717.7	1997.5	2315.6	2346.1	2566.5
25°	1967.8	1913.9	1813.9	1632.6	1495.8	1525.5	1752.9	2067.9	2382.0	2415.6	2640.7
27.5°	2459.4	2443.0	2287.5	1988.9	1734.2	1616.1	1815.4	2121.8	2403.9	2438.3	2682.9
30°	2942.4	2961.9	2783.7	2453.9	2080.4	1784.2	1874.0	2142.1	2423.4	2459.4	2736.8
32.5°	3390.2	3413.6	3257.3	2930.6	2488.3	2074.9	1974.9	2221.0	2505.5	2542.2	2826.7
35°	3742.6	3745.7	3627.7	3367.5	2933.8	2428.1	2192.9	2359.4	2616.5	2659.5	2922.0
37.5°	4066.2	4061.5	3923.1	3698.9	3305.0	2779.0	2467.2	2518.8	2743.1	2787.6	3059.6
40°	4306.1	4309.2	4264.7	4053.7	3651.2	3103.3	2684.5	2668.1	2955.6	3025.2	3259.6
42.5°	4466.3	4495.2	4517.1	4410.0	4086.5	3502.7	3018.2	2987.7	3324.5	3382.3	3542.6
45°	4596.0	4647.6	4757.0	4751.5	4504.6	3992.7	3476.1	3413.6	3847.3	3909.1	3902.8
47.5°	4690.6	4742.9	4924.2	5033.7	4897.7	4467.9	4052.1	3998.2	4471.8	4539.0	4300.6
50°	4739.0	4801.6	5032.9	5244.7	5204.8	4925.8	4708.6	4711.7	5225.9	5290.8	4761.7
52.5°	4625.7	4707.0	5090.7	5472.1	5549.5	5364.2	5323.6	5426.8	5897.2	5952.7	5178.2
55°	4263.9	4366.3	5011.8	5665.9	5948.8	5881.6	6022.3	6179.3	6631.0	6667.0	5605.7
57.5°	4034.9	4143.5	4778.9	5830.8	6428.6	6531.8	6754.5	6869.4	7388.3	7479.8	6096.5
60°	3841.9	3927.1	4587.4	5866.0	6916.3	7327.4	7543.8	7662.6	8323.0	8382.4	6636.5
62.5°	3520.7	3618.4	4263.9	5620.6	7161.7	7964.3	8412.9	8359.7	9045.9	9087.3	6967.9
65°	3004.1	3012.7	3607.4	5004.0	6908.5	8377.7	9023.2	8800.5	9391.3	9419.5	6942.1
67.5°	2242.1	2325.0	2775.1	3933.3	5835.5	8024.5	9220.9	8812.2	9173.3	9095.1	6391.1
70°	1444.2	1507.5	1881.1	2727.4	4207.6	6696.7	8565.3	8208.1	8051.0	7877.5	5231.4
72.5°	666.6	747.9	1117.5	1558.3	2495.3	4770.3	6953.0	6668.6	5794.8	5366.6	3325.3
75°	290.7	311.0	551.7	822.1	1169.9	2522.7	4584.3	4139.6	2617.3	2390.6	1330.9
77.5°	177.4	190.7	289.2	440.8	459.5	961.2	2469.5	1806.1	808.9	713.5	361.1
80°	120.4	135.2	210.2	230.5	157.1	268.1	926.9	482.2	163.3	156.3	77.4
82.5°	58.6	74.2	155.5	128.9	68.0	86.0	269.6	103.2	47.7	44.5	27.4
85°	8.6	14.8	87.5	84.4	30.5	20.3	47.7	25.8	16.4	15.6	12.5
87.5°	0.0	0.0	29.7	13.3	3.1	3.1	5.5	5.5	6.3	5.5	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°	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9
2.5°	2040.5	2044.4	2029.6	2008.5	1985.8	1963.1	1931.1	1902.2	1885.0	1895.1	1870.1
5°	2077.2	2074.1	2035.0	1970.9	1885.8	1783.4	1681.8	1595.0	1566.9	1524.7	1520.0
7.5°	2128.0	2119.4	2036.6	1889.7	1697.4	1505.2	1317.6	1193.4	1122.2	1062.1	1063.6
10°	2199.1	2174.1	2018.6	1746.7	1430.1	1140.2	901.1	737.0	665.8	643.2	625.2
12.5°	2272.6	2224.2	1968.6	1553.6	1113.6	779.2	547.8	447.8	404.0	390.0	388.4
15°	2338.3	2261.7	1881.1	1321.5	809.6	497.8	373.6	340.7	335.3	336.0	335.3
17.5°	2403.1	2291.4	1759.9	1075.3	550.2	357.1	321.2	313.4	315.7	318.9	318.1
20°	2457.0	2297.6	1605.2	820.6	389.2	313.4	301.7	300.1	302.4	304.8	304.8
22.5°	2515.7	2302.3	1421.6	568.2	318.1	291.5	285.2	285.2	288.4	291.5	292.3
25°	2559.4	2276.5	1202.0	407.9	280.6	270.4	267.3	268.1	271.2	272.7	272.0
27.5°	2566.5	2203.8	969.1	312.6	254.8	244.6	241.5	244.6	240.7	243.0	241.5
30°	2572.7	2111.6	733.0	263.4	231.3	215.7	211.0	206.3	203.2	199.3	198.5
32.5°	2592.2	2003.0	535.3	236.8	209.4	192.2	181.3	168.0	157.9	154.7	154.0
35°	2600.8	1872.5	393.1	215.7	189.9	171.1	151.6	132.9	118.0	112.5	116.4
37.5°	2633.7	1745.9	304.8	200.1	172.7	149.3	124.3	100.8	86.7	83.6	85.2
40°	2700.9	1608.3	255.6	186.8	157.9	128.9	98.5	75.8	66.4	63.3	62.5
42.5°	2808.7	1471.6	227.4	174.3	143.0	108.6	77.4	59.4	51.6	49.2	49.2
45°	2940.0	1340.3	207.9	161.0	127.4	87.5	61.0	47.7	43.0	41.4	41.4
47.5°	3112.7	1225.4	191.5	147.7	110.2	69.6	49.2	41.4	38.3	39.1	39.9
50°	3287.8	1140.2	173.5	132.9	90.7	57.0	42.2	36.7	35.9	36.7	36.7
52.5°	3419.9	1090.2	149.3	112.5	71.1	47.7	37.5	34.4	33.6	32.0	32.0
55°	3598.0	1079.3	118.8	91.4	56.3	39.9	33.6	31.3	28.9	27.4	26.6
57.5°	3827.0	1091.8	91.4	71.1	43.8	32.8	29.7	25.8	22.7	19.5	19.5
60°	3969.3	1063.6	71.1	54.7	32.0	26.6	22.7	18.8	14.8	12.5	11.7
62.5°	3923.9	944.8	56.3	40.6	22.7	19.5	14.8	12.5	8.6	6.3	5.5
65°	3690.3	762.7	45.3	28.1	16.4	11.7	7.8	7.8	3.9	0.8	0.0
67.5°	3230.0	565.0	35.9	18.8	9.4	5.5	3.9	2.3	0.0	0.0	0.0
70°	2629.0	407.9	28.1	11.7	5.5	3.9	1.6	0.8	0.0	0.0	0.0
72.5°	1669.3	233.7	21.9	7.0	3.9	1.6	0.0	0.0	0.0	0.0	0.0
75°	645.5	91.4	14.8	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	182.9	43.0	8.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	47.7	18.8	4.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.7	7.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.3	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	0.8	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)