

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: P452330

Luminaire Tested: **GALN-SA3B-730-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452330  
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-SA3B-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 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: 12112 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

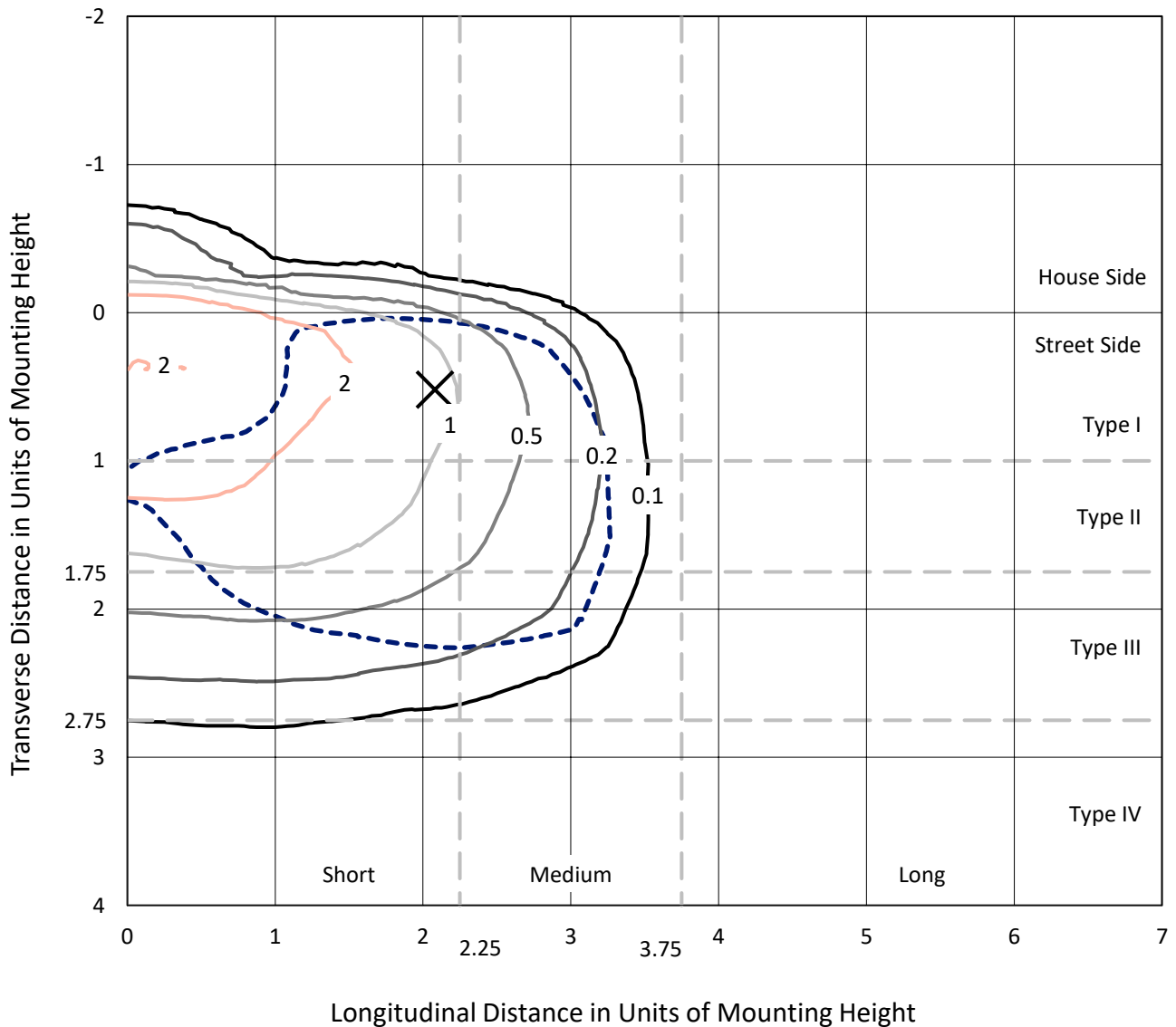
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452330  
 CATALOG NUMBER: GALN-SA3B-730-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

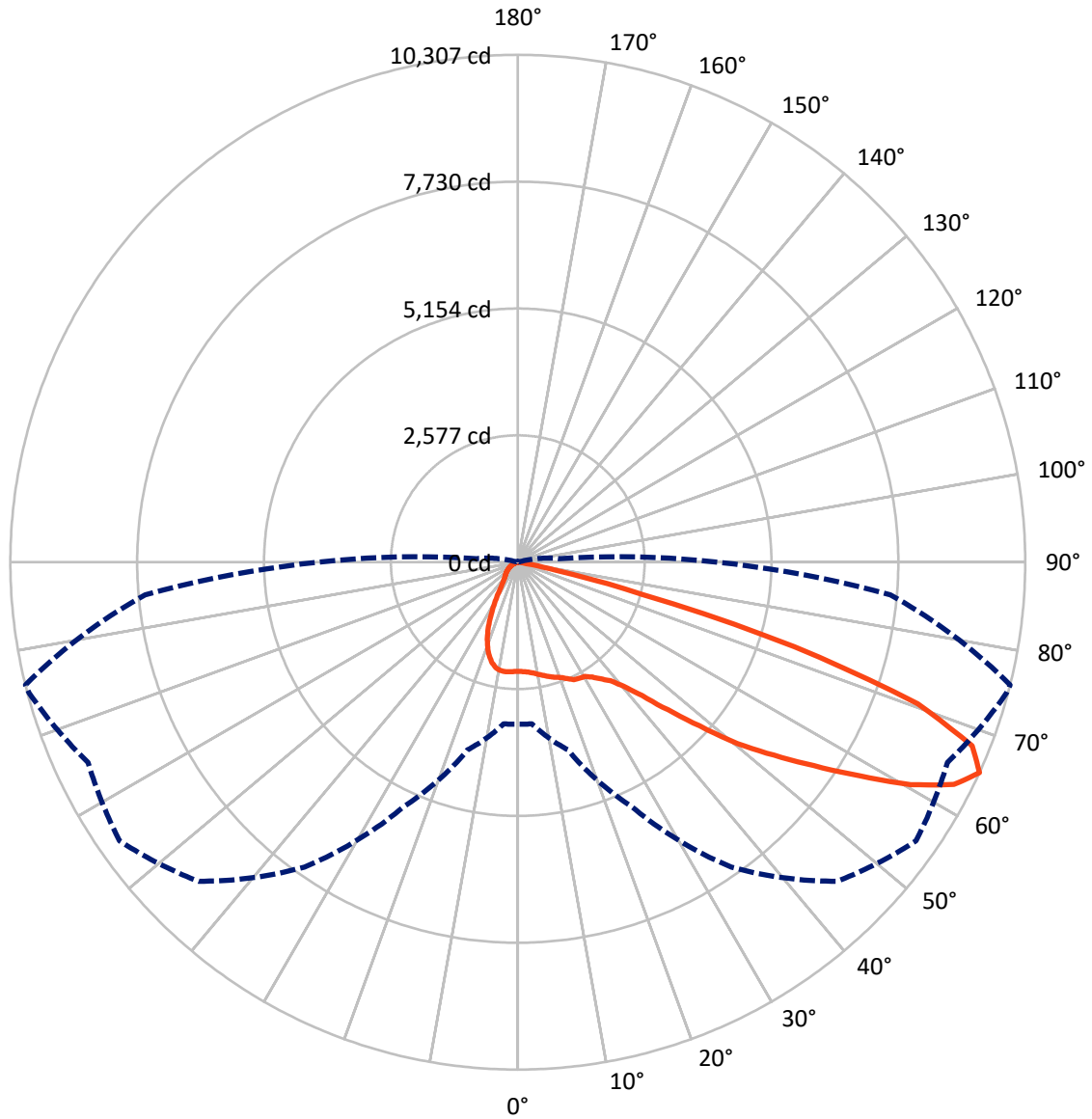
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P452330  
CATALOG NUMBER: GALN-SA3B-730-U-T3R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P452330

CATALOG NUMBER: GALN-SA3B-730-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	874.7	0.0	874.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	11237.3	0.0	11237.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	12112.0	0.0	12112.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.5	1.5
10°-20°	406.4	3.4
20°-30°	654.9	5.4
30°-40°	1138.6	9.4
40°-50°	1881.6	15.5
50°-60°	2906.6	24.0
60°-70°	3549.4	29.3
70°-80°	1347.1	11.1
80°-90°	45.0	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°	12112.0	100.0
0°-180°	12112.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P452330

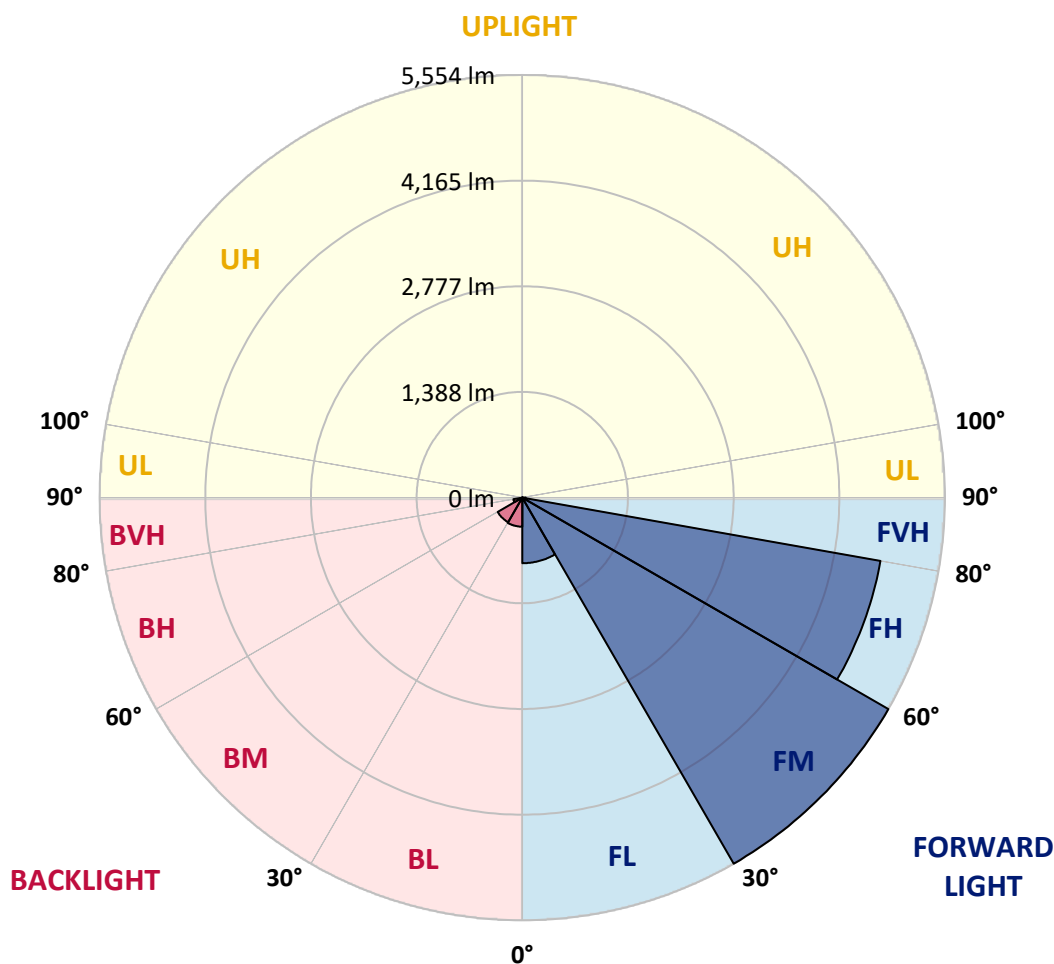
CATALOG NUMBER: GALN-SA3B-730-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.6	7.1			
FM (30°-60°)	5553.5	45.9			
FH (60°-80°)	4777.8	39.4			G2/5000
FVH (80°-90°)	44.3	0.4			G1/100
BL (0°-30°)	382.2	3.2	B1/500		
BM (30°-60°)	373.3	3.1	B1/1000		
BH (60°-80°)	118.7	1.0	B1/500		G1/500
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





REPORT NUMBER: P452330

CATALOG NUMBER: GALN-SA3B-730-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7
2.5°	2117.3	2118.2	2123.3	2136.1	2155.8	2172.1	2185.7	2208.0	2223.4	2225.1	2230.2
5°	1971.1	1960.8	1971.1	2004.5	2034.4	2079.7	2135.3	2190.9	2240.5	2243.9	2267.8
7.5°	1806.9	1815.5	1831.7	1865.9	1922.4	1991.6	2072.0	2171.2	2265.3	2273.8	2320.9
10°	1640.2	1659.0	1685.5	1737.6	1816.3	1906.1	2015.6	2157.5	2304.6	2316.6	2397.8
12.5°	1486.2	1494.8	1527.3	1597.4	1694.9	1821.5	1972.8	2149.8	2348.2	2362.8	2479.9
15°	1368.2	1379.3	1407.6	1470.8	1579.4	1741.9	1937.8	2147.3	2391.0	2411.5	2562.0
17.5°	1346.0	1352.8	1364.8	1407.6	1502.5	1678.6	1906.1	2146.4	2432.0	2456.8	2638.1
20°	1437.5	1431.5	1419.5	1415.3	1467.4	1629.9	1883.0	2153.2	2471.4	2499.6	2718.5
22.5°	1666.7	1674.4	1604.2	1521.3	1504.2	1622.2	1879.6	2185.7	2533.8	2567.1	2808.3
25°	2153.2	2094.2	1984.8	1786.4	1636.7	1669.2	1918.1	2262.7	2606.5	2643.2	2889.5
27.5°	2691.1	2673.2	2503.0	2176.3	1897.6	1768.4	1986.5	2321.7	2630.4	2668.0	2935.7
30°	3219.6	3241.0	3046.0	2685.1	2276.4	1952.3	2050.6	2343.9	2651.8	2691.1	2994.7
32.5°	3709.6	3735.3	3564.2	3206.8	2722.8	2270.4	2160.9	2430.3	2741.6	2781.8	3093.0
35°	4095.3	4098.7	3969.6	3684.8	3210.2	2656.9	2399.5	2581.7	2863.0	2910.0	3197.4
37.5°	4449.3	4444.2	4292.8	4047.4	3616.4	3040.9	2699.7	2756.1	3001.5	3050.3	3347.9
40°	4711.8	4715.2	4666.5	4435.6	3995.2	3395.8	2937.4	2919.5	3234.1	3310.3	3566.8
42.5°	4887.1	4918.8	4942.7	4825.6	4471.5	3832.7	3302.6	3269.2	3637.8	3701.1	3876.4
45°	5029.1	5085.5	5205.2	5199.3	4929.0	4368.9	3803.7	3735.3	4209.9	4277.4	4270.6
47.5°	5132.6	5189.9	5388.2	5508.0	5359.2	4888.8	4433.9	4374.9	4893.1	4966.7	4705.8
50°	5185.6	5254.0	5507.1	5738.9	5695.2	5390.0	5152.2	5155.6	5718.3	5789.3	5210.4
52.5°	5061.6	5150.5	5570.4	5987.7	6072.4	5869.7	5825.2	5938.1	6452.9	6513.6	5666.2
55°	4665.7	4777.7	5484.0	6199.8	6509.3	6435.8	6589.7	6761.6	7255.9	7295.2	6133.9
57.5°	4415.1	4534.0	5229.2	6380.2	7034.4	7147.3	7391.0	7516.7	8084.5	8184.6	6671.0
60°	4203.9	4297.1	5019.7	6418.7	7568.0	8017.8	8254.7	8384.7	9107.3	9172.2	7261.9
62.5°	3852.4	3959.3	4665.7	6150.2	7836.5	8714.7	9205.6	9147.4	9898.3	9943.6	7624.4
65°	3287.2	3296.6	3947.3	5475.5	7559.4	9167.1	9873.5	9629.7	10276.2	10307.0	7596.2
67.5°	2453.4	2544.0	3036.6	4303.9	6385.3	8780.6	10089.8	9642.6	10037.6	9952.1	6993.3
70°	1580.3	1649.6	2058.3	2984.4	4604.1	7327.7	9372.3	8981.6	8809.7	8619.8	5724.3
72.5°	729.4	818.4	1222.9	1705.2	2730.5	5219.8	7608.2	7296.9	6340.9	5872.3	3638.6
75°	318.1	340.3	603.7	899.6	1280.1	2760.4	5016.3	4529.7	2863.9	2615.9	1456.3
77.5°	194.1	208.7	316.4	482.3	502.8	1051.8	2702.2	1976.2	885.1	780.7	395.1
80°	131.7	147.9	230.0	252.3	171.9	293.3	1014.2	527.6	178.7	171.0	84.7
82.5°	64.1	81.2	170.2	141.1	74.4	94.1	295.0	112.9	52.2	48.7	29.9
85°	9.4	16.2	95.8	92.4	33.4	22.2	52.2	28.2	18.0	17.1	13.7
87.5°	0.0	0.0	32.5	14.5	3.4	3.4	6.0	6.0	6.8	6.0	6.8
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: P452330  
 CATALOG NUMBER: GALN-SA3B-730-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7
2.5°	2232.8	2237.0	2220.8	2197.7	2172.9	2148.1	2113.1	2081.4	2062.6	2073.7	2046.4
5°	2273.0	2269.5	2226.8	2156.7	2063.5	1951.4	1840.3	1745.3	1714.6	1668.4	1663.3
7.5°	2328.6	2319.1	2228.5	2067.7	1857.4	1647.0	1441.8	1305.8	1228.0	1162.1	1163.8
10°	2406.4	2379.0	2208.8	1911.2	1564.9	1247.7	986.0	806.4	728.6	703.8	684.1
12.5°	2486.8	2433.7	2154.1	1700.0	1218.6	852.6	599.5	490.0	442.1	426.7	425.0
15°	2558.6	2474.8	2058.3	1446.0	885.9	544.7	408.8	372.8	366.9	367.7	366.9
17.5°	2629.6	2507.3	1925.8	1176.7	602.0	390.8	351.5	342.9	345.5	348.9	348.0
20°	2688.6	2514.1	1756.5	897.9	425.9	342.9	330.1	328.4	330.9	333.5	333.5
22.5°	2752.7	2519.2	1555.5	621.7	348.0	319.0	312.1	312.1	315.5	319.0	319.8
25°	2800.6	2491.0	1315.2	446.4	307.0	295.9	292.5	293.3	296.7	298.4	297.6
27.5°	2808.3	2411.5	1060.4	342.1	278.8	267.7	264.2	267.7	263.4	265.9	264.2
30°	2815.1	2310.6	802.1	288.2	253.1	236.0	230.9	225.8	222.3	218.1	217.2
32.5°	2836.5	2191.7	585.8	259.1	229.2	210.4	198.4	183.9	172.7	169.3	168.5
35°	2845.9	2048.9	430.1	236.0	207.8	187.3	165.9	145.4	129.1	123.1	127.4
37.5°	2881.8	1910.4	333.5	218.9	189.0	163.3	136.0	110.3	94.9	91.5	93.2
40°	2955.4	1759.9	279.6	204.4	172.7	141.1	107.7	82.9	72.7	69.3	68.4
42.5°	3073.4	1610.2	248.8	190.7	156.5	118.9	84.7	65.0	56.4	53.9	53.9
45°	3217.0	1466.6	227.5	176.2	139.4	95.8	66.7	52.2	47.0	45.3	45.3
47.5°	3406.0	1340.9	209.5	161.6	120.6	76.1	53.9	45.3	41.9	42.8	43.6
50°	3597.6	1247.7	189.8	145.4	99.2	62.4	46.2	40.2	39.3	40.2	40.2
52.5°	3742.1	1192.9	163.3	123.1	77.8	52.2	41.0	37.6	36.8	35.1	35.1
55°	3937.1	1181.0	130.0	100.1	61.6	43.6	36.8	34.2	31.6	29.9	29.1
57.5°	4187.6	1194.6	100.1	77.8	47.9	35.9	32.5	28.2	24.8	21.4	21.4
60°	4343.3	1163.8	77.8	59.9	35.1	29.1	24.8	20.5	16.2	13.7	12.8
62.5°	4293.7	1033.9	61.6	44.5	24.8	21.4	16.2	13.7	9.4	6.8	6.0
65°	4038.0	834.6	49.6	30.8	18.0	12.8	8.6	8.6	4.3	0.9	0.0
67.5°	3534.3	618.3	39.3	20.5	10.3	6.0	4.3	2.6	0.0	0.0	0.0
70°	2876.7	446.4	30.8	12.8	6.0	4.3	1.7	0.9	0.0	0.0	0.0
72.5°	1826.6	255.7	23.9	7.7	4.3	1.7	0.0	0.0	0.0	0.0	0.0
75°	706.3	100.1	16.2	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	200.1	47.0	9.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	52.2	20.5	5.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.8	8.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.5	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	0.9	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)