

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: STREETWORKS

Report Number: P458826

Luminaire Tested: **GLAN-SA3C-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458826  
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: STREETWORKS  
Catalog Number: GLAN-SA3C-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 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: 15307 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

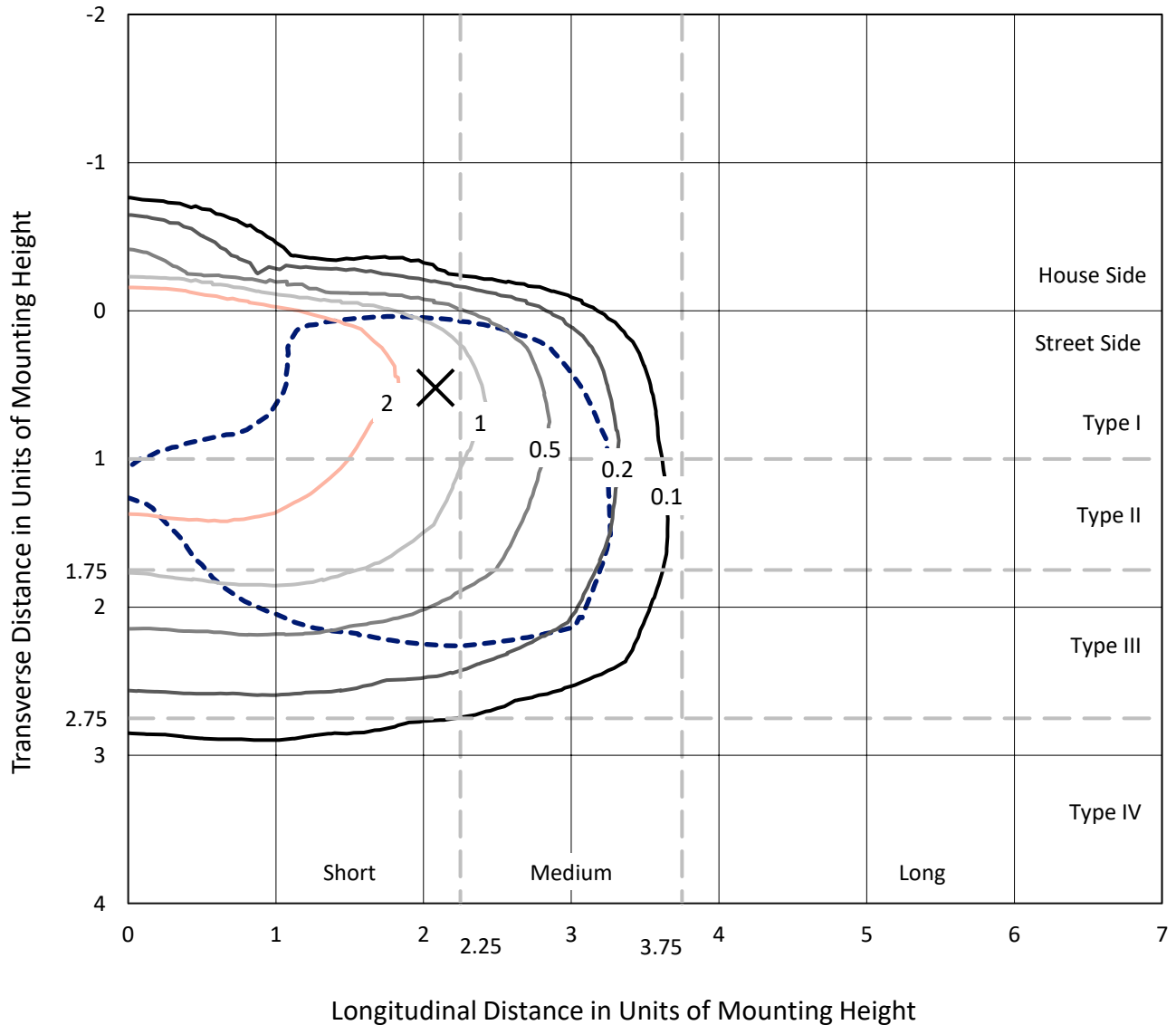
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

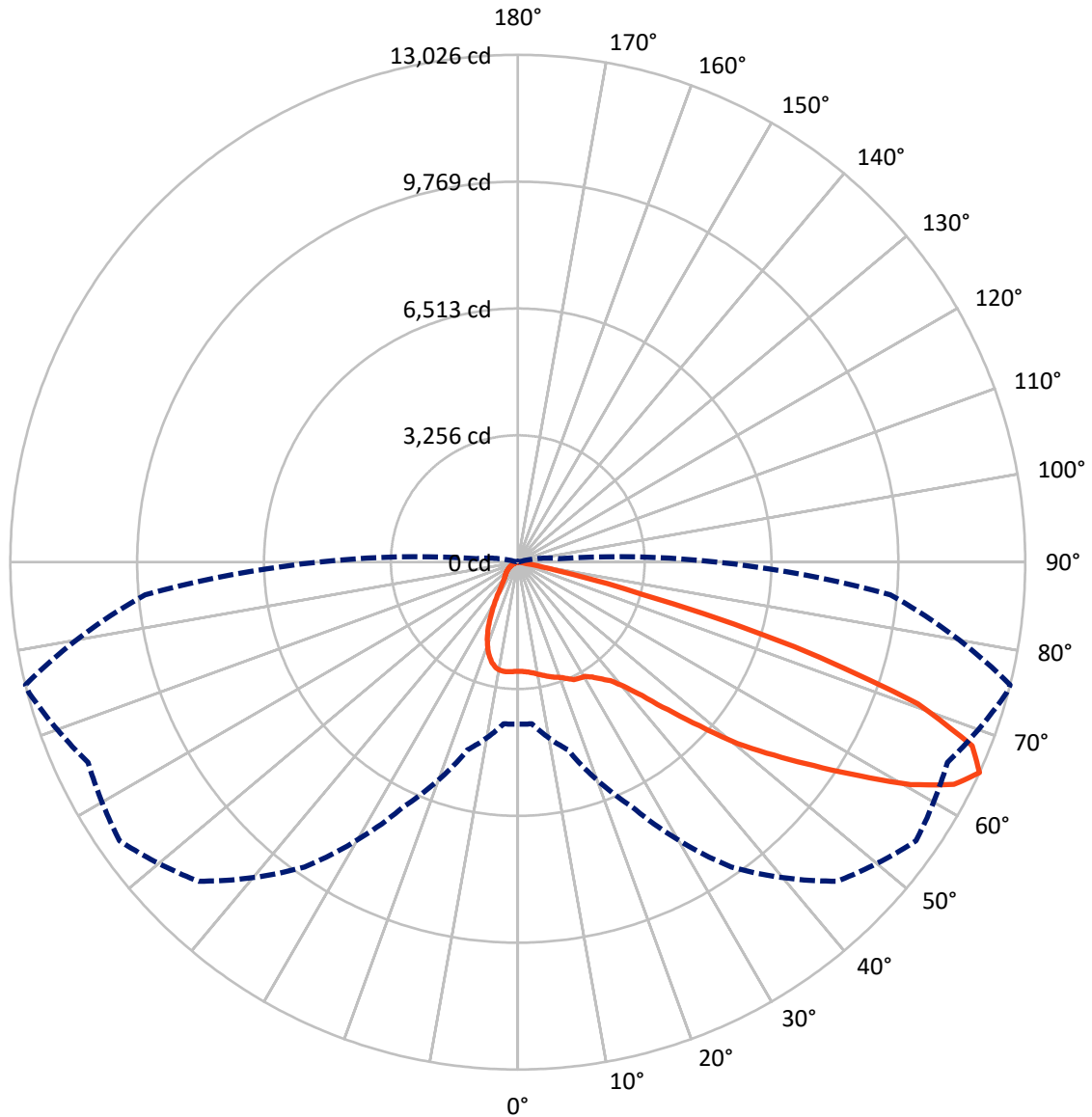
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	1105.5	0.0	1105.5
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	14201.5	0.0	14201.5
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	15307.0	0.0	15307.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.7	1.5
10°-20°	513.6	3.4
20°-30°	827.6	5.4
30°-40°	1439.0	9.4
40°-50°	2377.9	15.5
50°-60°	3673.3	24.0
60°-70°	4485.7	29.3
70°-80°	1702.4	11.1
80°-90°	56.8	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°	15307.0	100.0
0°-180°	15307.0	100.0

**Coefficient of Utilization**



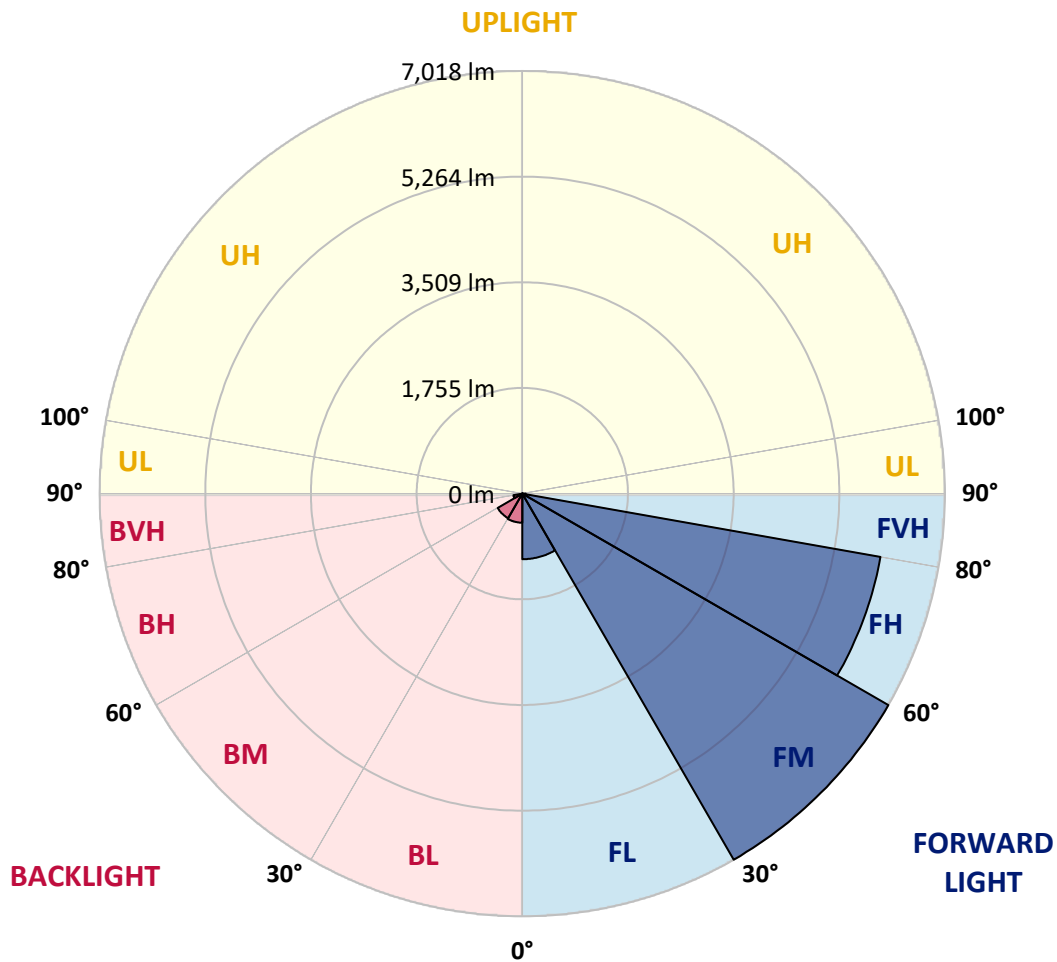
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.9	7.1			
FM (30°-60°)	7018.5	45.9			
FH (60°-80°)	6038.1	39.4			G3/7500
FVH (80°-90°)	56.0	0.4			G1/100
BL (0°-30°)	483.0	3.2	B1/500		
BM (30°-60°)	471.7	3.1	B1/1000		
BH (60°-80°)	150.0	1.0	B1/500		G1/500
BVH (80°-90°)	0.8	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2800.1	2800.1	2800.1	2800.1	2800.1	2800.1	2800.1	2800.1	2800.1	2800.1	2800.1
2.5°	2675.9	2676.9	2683.4	2699.6	2724.5	2745.0	2762.3	2790.4	2809.9	2812.0	2818.5
5°	2491.1	2478.1	2491.1	2533.2	2571.0	2628.3	2698.6	2768.8	2831.5	2835.8	2866.1
7.5°	2283.6	2294.4	2314.9	2358.1	2429.5	2517.0	2618.6	2743.9	2862.8	2873.6	2933.1
10°	2072.8	2096.6	2130.1	2196.0	2295.4	2408.9	2547.3	2726.7	2912.5	2927.7	3030.3
12.5°	1878.3	1889.1	1930.2	2018.8	2142.0	2301.9	2493.2	2716.9	2967.7	2986.0	3134.1
15°	1729.1	1743.2	1778.9	1858.8	1996.1	2201.4	2448.9	2713.7	3021.7	3047.6	3237.8
17.5°	1701.0	1709.7	1724.8	1778.9	1898.8	2121.4	2408.9	2712.6	3073.6	3104.9	3334.0
20°	1816.7	1809.1	1794.0	1788.6	1854.5	2059.8	2379.7	2721.2	3123.3	3158.9	3435.6
22.5°	2106.3	2116.0	2027.4	1922.6	1901.0	2050.1	2375.4	2762.3	3202.2	3244.3	3549.1
25°	2721.2	2646.7	2508.3	2257.6	2068.5	2109.6	2424.0	2859.6	3294.0	3340.5	3651.7
27.5°	3401.0	3378.3	3163.3	2750.4	2398.1	2234.9	2510.5	2934.1	3324.3	3371.8	3710.1
30°	4068.9	4095.9	3849.5	3393.5	2876.9	2467.3	2591.6	2962.2	3351.3	3401.0	3784.7
32.5°	4688.2	4720.6	4504.4	4052.7	3441.0	2869.3	2731.0	3071.4	3464.8	3515.6	3909.0
35°	5175.6	5179.9	5016.7	4656.8	4057.0	3357.8	3032.5	3262.7	3618.2	3677.7	4040.8
37.5°	5623.0	5616.5	5425.2	5115.0	4570.4	3843.0	3411.8	3483.2	3793.3	3854.9	4231.0
40°	5954.8	5959.1	5897.5	5605.7	5049.1	4291.5	3712.3	3689.6	4087.3	4183.5	4507.7
42.5°	6176.3	6216.3	6246.5	6098.5	5651.1	4843.8	4173.7	4131.6	4597.4	4677.3	4898.9
45°	6355.7	6427.0	6578.3	6570.8	6229.3	5521.4	4807.0	4720.6	5320.4	5405.7	5397.1
47.5°	6486.5	6558.9	6809.6	6960.9	6772.9	6178.5	5603.5	5529.0	6183.9	6276.8	5947.2
50°	6553.5	6639.9	6959.8	7252.7	7197.6	6811.8	6511.3	6515.6	7226.8	7316.5	6584.8
52.5°	6396.8	6509.2	7039.8	7567.2	7674.2	7418.0	7361.8	7504.5	8155.1	8231.8	7160.8
55°	5896.4	6038.0	6930.6	7835.2	8226.4	8133.5	8328.0	8545.2	9169.9	9219.6	7752.0
57.5°	5579.7	5730.0	6608.6	8063.2	8890.0	9032.6	9340.6	9499.5	10217.1	10343.5	8430.7
60°	5312.8	5430.6	6343.8	8111.9	9564.3	10132.8	10432.2	10596.4	11509.6	11591.8	9177.5
62.5°	4868.6	5003.7	5896.4	7772.5	9903.7	11013.6	11633.9	11560.4	12509.3	12566.6	9635.7
65°	4154.3	4166.2	4988.6	6919.8	9553.5	11585.3	12478.0	12170.0	12987.0	13025.9	9600.0
67.5°	3100.6	3215.1	3837.6	5439.3	8069.7	11096.8	12751.4	12186.2	12685.5	12577.4	8838.1
70°	1997.2	2084.7	2601.3	3771.7	5818.6	9260.7	11844.7	11350.8	11133.6	10893.6	7234.3
72.5°	921.9	1034.2	1545.4	2155.0	3450.7	6596.7	9615.1	9221.8	8013.5	7421.3	4598.5
75°	402.0	430.1	763.0	1136.9	1617.8	3488.6	6339.5	5724.6	3619.3	3305.9	1840.5
77.5°	245.3	263.7	399.9	609.5	635.5	1329.3	3415.1	2497.5	1118.5	986.7	499.3
80°	166.4	187.0	290.7	318.8	217.2	370.7	1281.7	666.8	225.9	216.1	107.0
82.5°	81.1	102.7	215.1	178.3	94.0	118.9	372.8	142.7	65.9	61.6	37.8
85°	11.9	20.5	121.0	116.7	42.1	28.1	65.9	35.7	22.7	21.6	17.3
87.5°	0.0	0.0	41.1	18.4	4.3	4.3	7.6	7.6	8.6	7.6	8.6
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°	2800.1	2800.1	2800.1	2800.1	2800.1	2800.1	2800.1	2800.1	2800.1	2800.1	2800.1
2.5°	2821.8	2827.2	2806.6	2777.4	2746.1	2714.8	2670.5	2630.5	2606.7	2620.7	2586.2
5°	2872.5	2868.2	2814.2	2725.6	2607.8	2466.2	2325.7	2205.7	2166.8	2108.5	2102.0
7.5°	2942.8	2930.9	2816.3	2613.2	2347.3	2081.5	1822.1	1650.3	1551.9	1468.7	1470.9
10°	3041.1	3006.6	2791.5	2415.4	1977.7	1576.8	1246.1	1019.1	920.8	889.4	864.6
12.5°	3142.7	3075.7	2722.3	2148.5	1540.0	1077.5	757.6	619.3	558.7	539.3	537.1
15°	3233.5	3127.6	2601.3	1827.5	1119.6	688.4	516.6	471.2	463.6	464.7	463.6
17.5°	3323.2	3168.7	2433.8	1487.1	760.8	493.9	444.2	433.4	436.6	440.9	439.9
20°	3397.8	3177.3	2219.8	1134.8	538.2	433.4	417.2	415.0	418.2	421.5	421.5
22.5°	3478.8	3183.8	1965.8	785.7	439.9	403.1	394.5	394.5	398.8	403.1	404.2
25°	3539.3	3148.1	1662.1	564.1	388.0	373.9	369.6	370.7	375.0	377.2	376.1
27.5°	3549.1	3047.6	1340.1	432.3	352.3	338.3	333.9	338.3	332.9	336.1	333.9
30°	3557.7	2920.1	1013.7	364.2	319.9	298.3	291.8	285.3	281.0	275.6	274.5
32.5°	3584.7	2769.9	740.3	327.5	289.6	265.9	250.7	232.4	218.3	214.0	212.9
35°	3596.6	2589.4	543.6	298.3	262.6	236.7	209.7	183.7	163.2	155.6	161.0
37.5°	3642.0	2414.3	421.5	276.7	238.8	206.4	171.8	139.4	120.0	115.6	117.8
40°	3735.0	2224.1	353.4	258.3	218.3	178.3	136.2	104.8	91.9	87.5	86.5
42.5°	3884.1	2035.0	314.5	241.0	197.8	150.2	107.0	82.1	71.3	68.1	68.1
45°	4065.7	1853.4	287.5	222.6	176.2	121.0	84.3	65.9	59.4	57.3	57.3
47.5°	4304.5	1694.6	264.8	204.3	152.4	96.2	68.1	57.3	53.0	54.0	55.1
50°	4546.6	1576.8	239.9	183.7	125.4	78.9	58.4	50.8	49.7	50.8	50.8
52.5°	4729.2	1507.6	206.4	155.6	98.3	65.9	51.9	47.6	46.5	44.3	44.3
55°	4975.6	1492.5	164.3	126.4	77.8	55.1	46.5	43.2	40.0	37.8	36.7
57.5°	5292.3	1509.8	126.4	98.3	60.5	45.4	41.1	35.7	31.3	27.0	27.0
60°	5489.0	1470.9	98.3	75.7	44.3	36.7	31.3	25.9	20.5	17.3	16.2
62.5°	5426.3	1306.6	77.8	56.2	31.3	27.0	20.5	17.3	11.9	8.6	7.6
65°	5103.1	1054.8	62.7	38.9	22.7	16.2	10.8	10.8	5.4	1.1	0.0
67.5°	4466.6	781.4	49.7	25.9	13.0	7.6	5.4	3.2	0.0	0.0	0.0
70°	3635.5	564.1	38.9	16.2	7.6	5.4	2.2	1.1	0.0	0.0	0.0
72.5°	2308.4	323.1	30.3	9.7	5.4	2.2	0.0	0.0	0.0	0.0	0.0
75°	892.7	126.4	20.5	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	252.9	59.4	11.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	65.9	25.9	6.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.3	10.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.4	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	1.1	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)