

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: P321234

Luminaire Tested: **GAN-SA0A-730-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0A-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33907 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

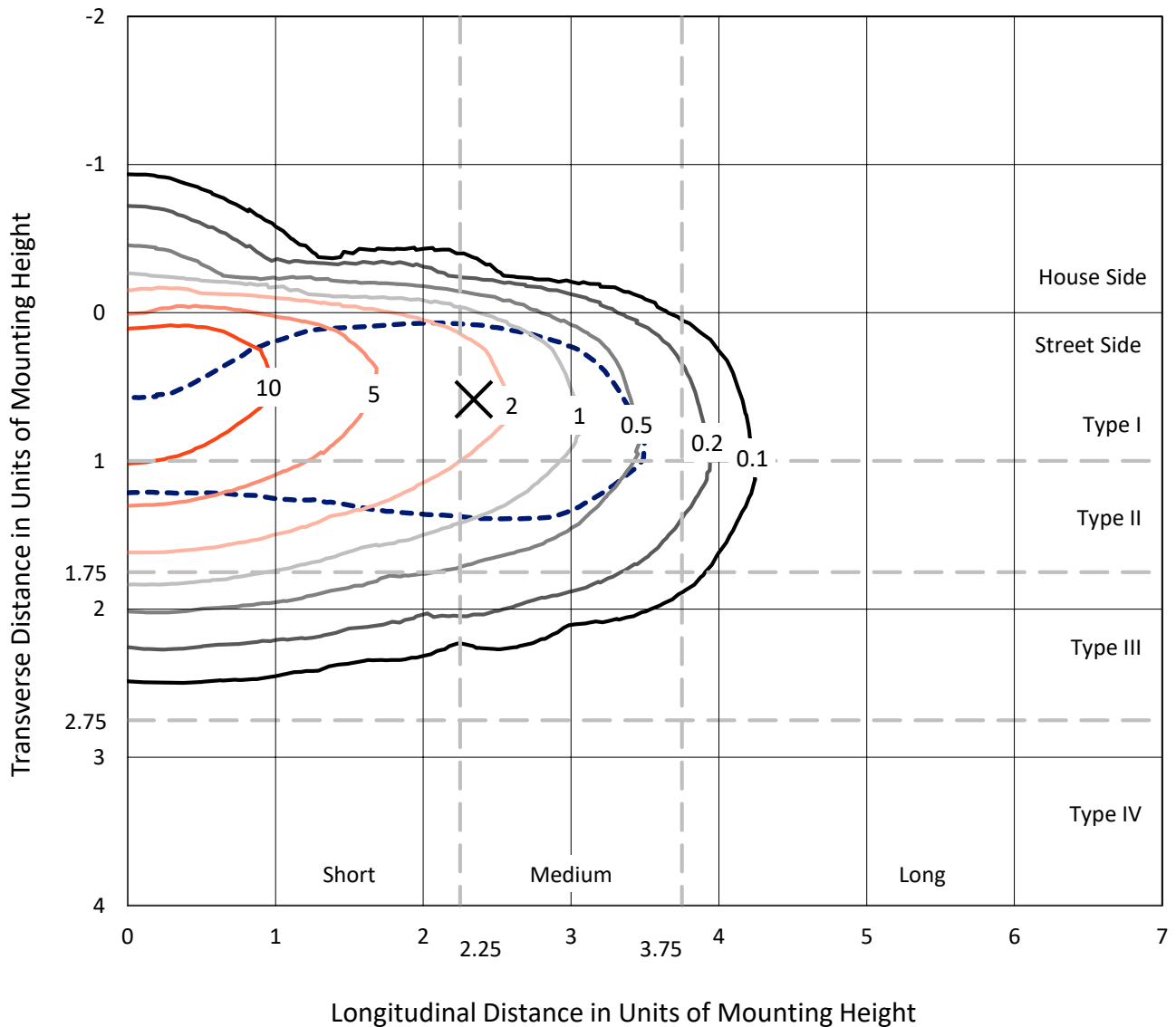
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

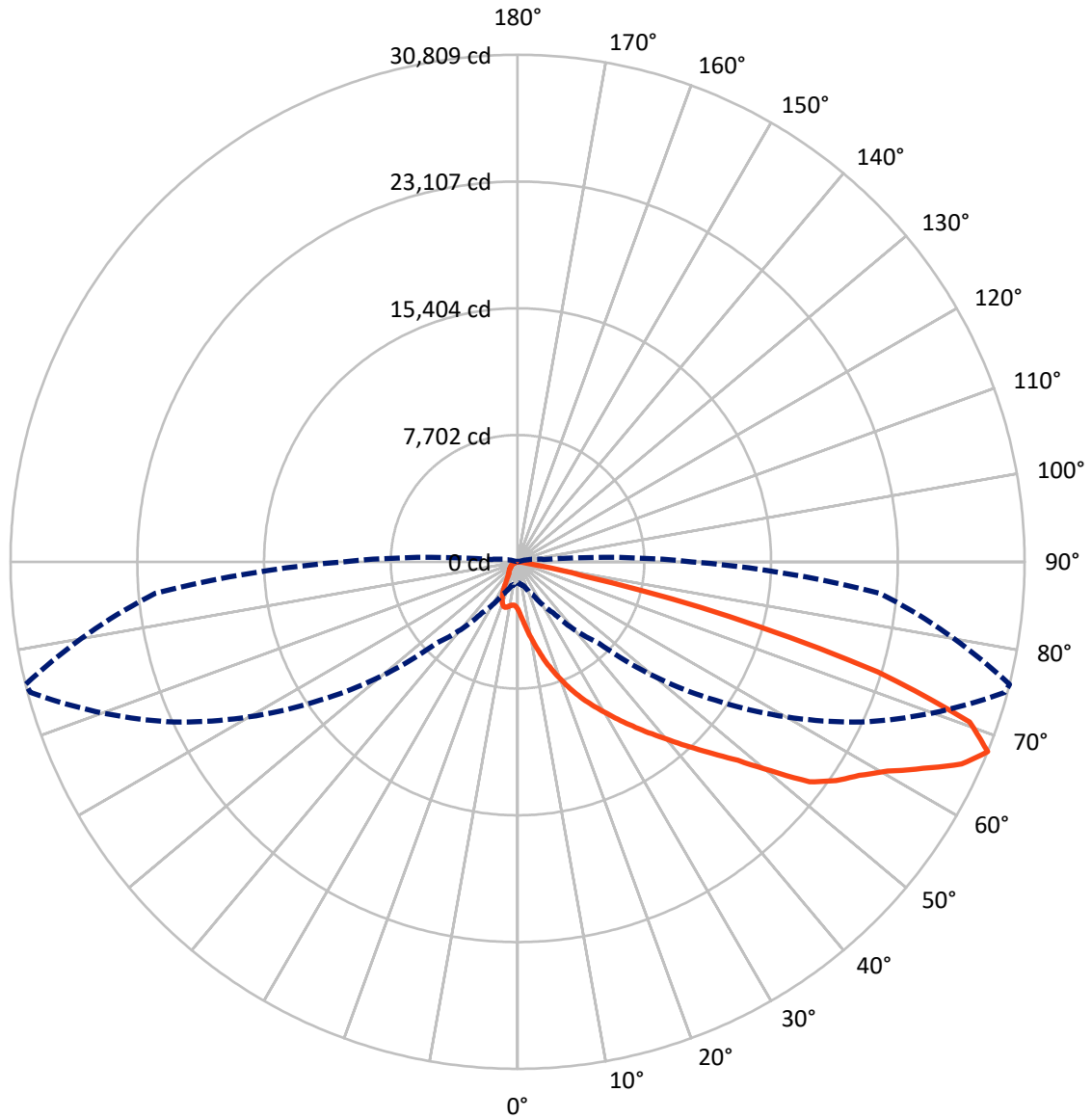
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1683.7	0.0	1683.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	32223.3	0.0	32223.3
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	33907.0	0.0	33907.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.7	1.1
10°-20°	1417.8	4.2
20°-30°	2884.8	8.5
30°-40°	5007.1	14.8
40°-50°	7074.4	20.9
50°-60°	8022.7	23.7
60°-70°	6654.1	19.6
70°-80°	2410.3	7.1
80°-90°	78.2	0.2
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°	33907.0	100.0
0°-180°	33907.0	100.0

**Coefficient of Utilization**

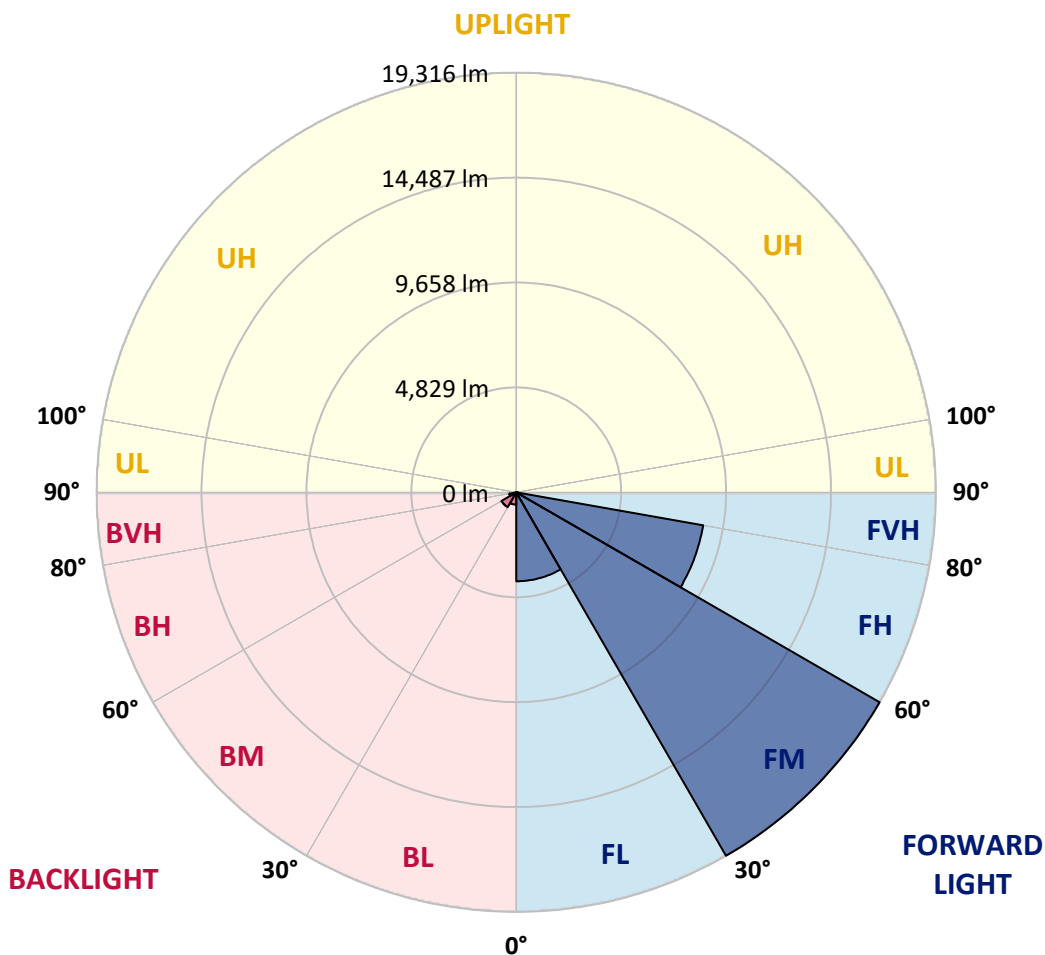


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4092.5	12.1			
FM (30°-60°)	19316.1	57.0			
FH (60°-80°)	8739.0	25.8			G4/12000
FVH (80°-90°)	75.7	0.2			G1/100
BL (0°-30°)	567.8	1.7	B2/1000		
BM (30°-60°)	788.0	2.3	B1/1000		
BH (60°-80°)	325.4	1.0	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Medium





REPORT NUMBER: P321234

CATALOG NUMBER: GAN-SAOA-730-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3
2.5°	4293.6	4197.1	4219.4	4157.0	4044.0	3812.3	3614.7	3427.5	3209.1	3201.7	3021.9
5°	5789.7	5708.0	5697.6	5571.3	5366.3	4972.6	4589.3	4152.5	3665.2	3629.5	3247.7
7.5°	7147.7	7082.3	7058.5	6908.5	6526.6	6143.3	5644.1	5002.3	4240.2	4174.8	3552.3
10°	8190.6	8159.4	8165.4	8058.4	7731.5	7375.0	6719.8	5901.2	4892.4	4791.3	3917.8
12.5°	8981.0	8988.4	9041.9	8976.5	8793.8	8529.3	7829.6	6859.4	5614.4	5476.3	4335.2
15°	9561.9	9599.0	9697.1	9778.8	9765.4	9536.6	8894.8	7832.6	6381.0	6228.0	4800.3
17.5°	9937.8	9979.4	10122.0	10303.3	10469.7	10416.2	9922.9	8771.5	7156.6	6979.8	5298.0
20°	10267.6	10316.6	10469.7	10708.9	11019.4	11086.2	10762.3	9682.2	7930.6	7715.2	5812.0
22.5°	10982.2	10980.7	11074.3	11214.0	11509.6	11682.0	11477.0	10527.6	8695.7	8471.4	6336.5
25°	12274.8	12225.7	12193.1	12083.1	12148.5	12255.5	12141.1	11318.0	9465.3	9238.0	6868.3
27.5°	13811.0	13840.7	13576.2	13280.6	13051.8	12941.8	12754.6	12050.4	10205.2	9955.6	7388.3
30°	15431.9	15440.8	15128.8	14751.4	14247.8	13830.3	13506.4	12750.2	10965.9	10694.0	7893.5
32.5°	16893.8	16835.8	16526.8	16012.8	15376.9	14907.4	14234.4	13531.7	11771.1	11508.2	8455.1
35°	18052.6	17984.3	17608.4	17140.4	16480.8	16008.3	15198.6	14311.7	12618.0	12360.9	9018.1
37.5°	18899.5	18819.2	18433.0	17951.6	17382.6	17107.7	16317.3	15160.0	13542.1	13265.7	9610.9
40°	19193.6	19123.8	18881.6	18529.5	18071.9	18009.5	17504.4	16136.1	14547.9	14253.7	10282.5
42.5°	19018.3	18950.0	18863.8	18744.9	18554.8	18614.2	18624.6	17248.9	15665.1	15375.4	11023.8
45°	18323.0	18262.1	18351.2	18525.1	18761.3	19055.5	19646.8	18444.8	16913.1	16604.1	11881.1
47.5°	17299.4	17254.8	17501.4	17935.2	18626.1	19437.3	20581.3	19701.7	18314.1	18027.4	12950.8
50°	15843.4	15836.0	16329.2	17121.1	18183.4	19621.5	21547.0	21131.0	20260.4	19958.8	14437.9
52.5°	13576.2	13591.1	14561.2	15828.5	17406.3	19496.7	22168.0	22967.3	22524.5	22211.1	15726.0
55°	11417.5	11506.7	12194.5	14021.9	16214.8	19033.2	22381.9	23824.5	23774.0	23476.9	16442.1
57.5°	9303.4	9465.3	10127.9	11835.0	14475.1	17965.0	22264.5	24195.9	24704.1	24476.7	17387.0
60°	7012.5	7086.7	7850.4	9446.0	12242.1	16015.7	21413.2	24398.0	25975.8	25818.3	18758.3
62.5°	4461.5	4647.2	5324.7	6863.9	9532.2	13308.8	19978.1	24395.0	27567.0	27653.1	20527.8
65°	2350.4	2567.3	2926.8	4253.5	6550.4	10285.4	17819.4	24166.2	29519.2	29639.5	21911.0
67.5°	1267.3	1329.7	1519.9	2207.7	3798.9	6967.9	14647.4	23037.1	30649.8	30808.8	22104.1
70°	927.1	961.2	1032.6	1221.2	1912.1	4047.0	10688.1	20477.3	29192.3	29132.9	19639.3
72.5°	711.6	765.1	818.6	894.4	1099.4	2160.2	6654.4	16035.1	23292.6	22900.4	14680.1
75°	561.6	570.5	646.3	714.6	824.6	1230.2	2955.0	9339.0	14216.6	13288.0	7612.7
77.5°	448.7	454.6	499.2	558.6	662.6	808.2	915.2	3674.1	4538.8	4050.0	1652.1
80°	265.9	280.8	371.4	430.9	549.7	509.6	334.3	797.8	708.7	641.8	277.8
82.5°	148.6	160.5	209.5	340.2	383.3	243.7	166.4	215.4	166.4	161.9	78.7
85°	0.0	7.4	135.2	211.0	156.0	53.5	69.8	71.3	49.0	46.1	31.2
87.5°	0.0	0.0	41.6	40.1	5.9	8.9	16.3	23.8	19.3	19.3	16.3
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°	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3
2.5°	2932.8	2852.5	2701.0	2552.4	2427.6	2325.1	2233.0	2195.8	2166.1	2161.7	2137.9
5°	3063.5	2901.6	2611.8	2374.1	2215.2	2102.3	2005.7	1946.3	1900.2	1882.4	1866.0
7.5°	3261.1	3016.0	2600.0	2326.6	2136.4	1946.3	1768.0	1574.8	1454.5	1408.4	1381.7
10°	3501.8	3167.5	2644.5	2313.2	1980.4	1579.3	1283.6	1038.5	939.0	906.3	897.4
12.5°	3782.6	3356.2	2721.8	2230.0	1647.6	1121.7	885.5	802.3	780.0	769.6	769.6
15°	4105.0	3562.7	2776.8	1989.3	1218.3	848.3	766.6	728.0	704.2	690.8	692.3
17.5°	4434.8	3764.7	2750.0	1640.2	898.8	754.7	693.8	652.2	619.5	606.2	603.2
20°	4767.6	3951.9	2601.4	1221.2	760.7	684.9	616.6	570.5	537.8	524.4	521.5
22.5°	5112.3	4110.9	2340.0	895.9	683.4	607.6	540.8	494.7	463.5	451.6	445.7
25°	5448.0	4240.2	1974.5	725.0	610.6	534.8	471.0	427.9	399.7	387.8	386.3
27.5°	5761.5	4321.9	1551.1	640.3	546.7	469.5	411.5	372.9	349.1	340.2	338.7
30°	6043.8	4329.3	1147.0	577.9	490.3	413.0	359.5	325.4	304.6	295.7	292.7
32.5°	6329.0	4266.9	835.0	521.5	438.3	364.0	312.0	285.3	270.4	263.0	263.0
35°	6597.9	4122.8	650.7	472.4	387.8	316.5	274.9	255.5	246.6	239.2	239.2
37.5°	6860.9	3916.3	552.7	429.4	340.2	276.3	242.2	230.3	222.9	215.4	215.4
40°	7128.3	3656.3	502.2	389.3	301.6	245.1	215.4	205.0	197.6	191.7	190.2
42.5°	7456.7	3356.2	469.5	352.1	267.4	216.9	190.2	178.3	172.3	166.4	163.4
45°	7837.0	3097.7	442.7	315.0	239.2	193.1	164.9	153.0	144.1	136.7	135.2
47.5°	8385.2	2910.5	407.1	274.9	212.5	167.9	142.6	129.3	115.9	108.5	107.0
50°	9085.0	2756.0	361.0	239.2	185.7	142.6	118.9	102.5	90.6	83.2	83.2
52.5°	9432.6	2553.9	319.4	208.0	156.0	120.3	96.6	77.3	71.3	63.9	63.9
55°	9572.3	2399.4	277.8	176.8	129.3	99.5	75.8	59.4	55.0	50.5	49.0
57.5°	9964.5	2354.8	242.2	150.1	107.0	78.7	57.9	44.6	41.6	35.7	35.7
60°	10595.9	2377.1	209.5	127.8	86.2	60.9	43.1	34.2	31.2	25.3	25.3
62.5°	11277.9	2348.9	176.8	109.9	66.9	44.6	29.7	25.3	25.3	14.9	13.4
65°	11408.6	2091.9	151.5	90.6	52.0	32.7	19.3	16.3	22.3	3.0	0.0
67.5°	10588.5	1622.4	130.7	69.8	38.6	25.3	14.9	7.4	19.3	0.0	0.0
70°	8466.9	1031.1	105.5	50.5	29.7	20.8	11.9	3.0	14.9	0.0	0.0
72.5°	5987.3	598.7	83.2	35.7	25.3	16.3	8.9	0.0	8.9	0.0	0.0
75°	3027.8	319.4	52.0	26.7	19.3	11.9	5.9	0.0	1.5	0.0	0.0
77.5°	655.2	148.6	32.7	19.3	13.4	7.4	3.0	0.0	0.0	0.0	0.0
80°	142.6	65.4	20.8	11.9	7.4	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	52.0	34.2	10.4	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.2	17.8	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	5.9	1.5	1.5	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)