

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: P454142

Luminaire Tested: **GLAN-SA5B-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19714 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

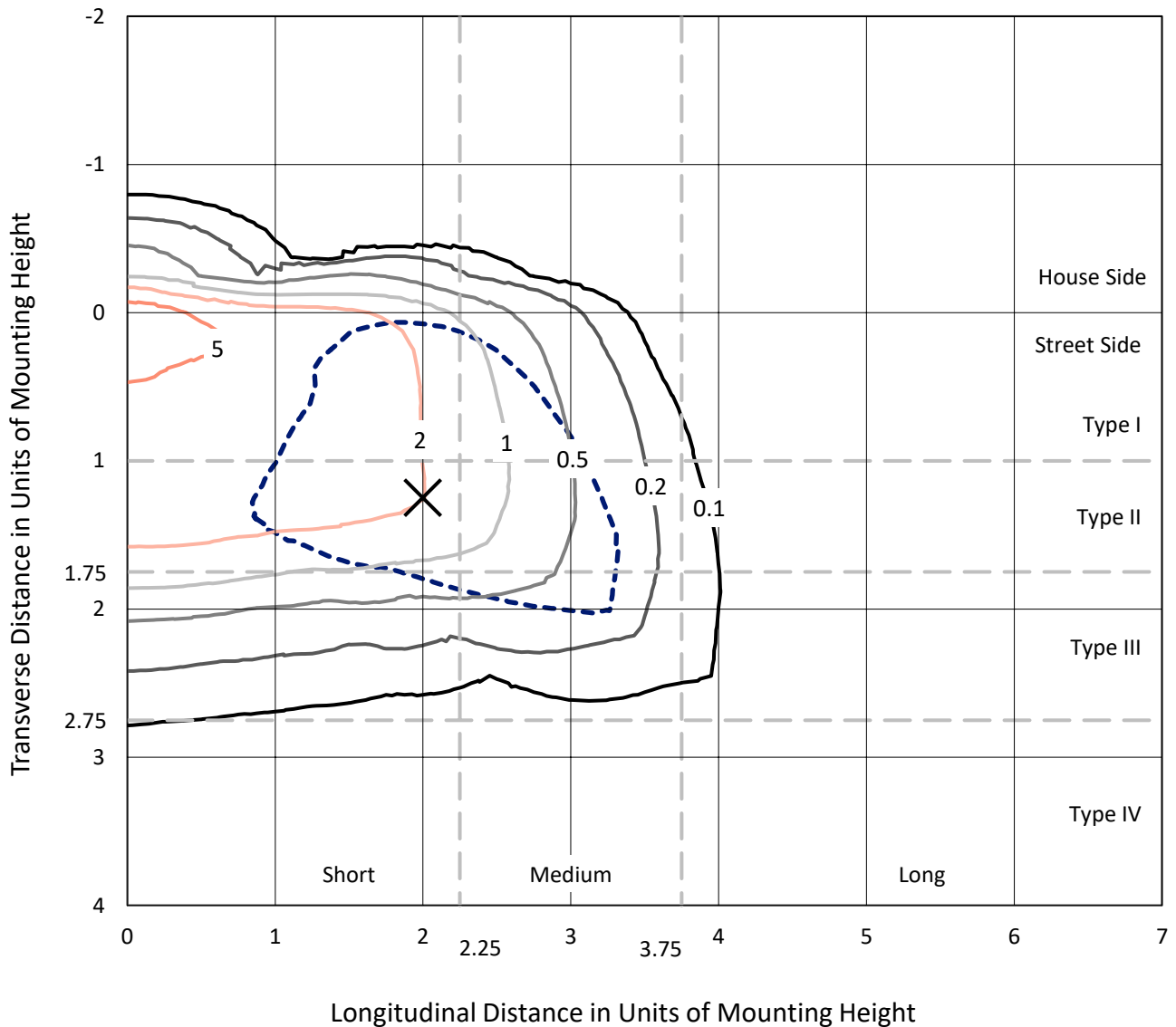
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

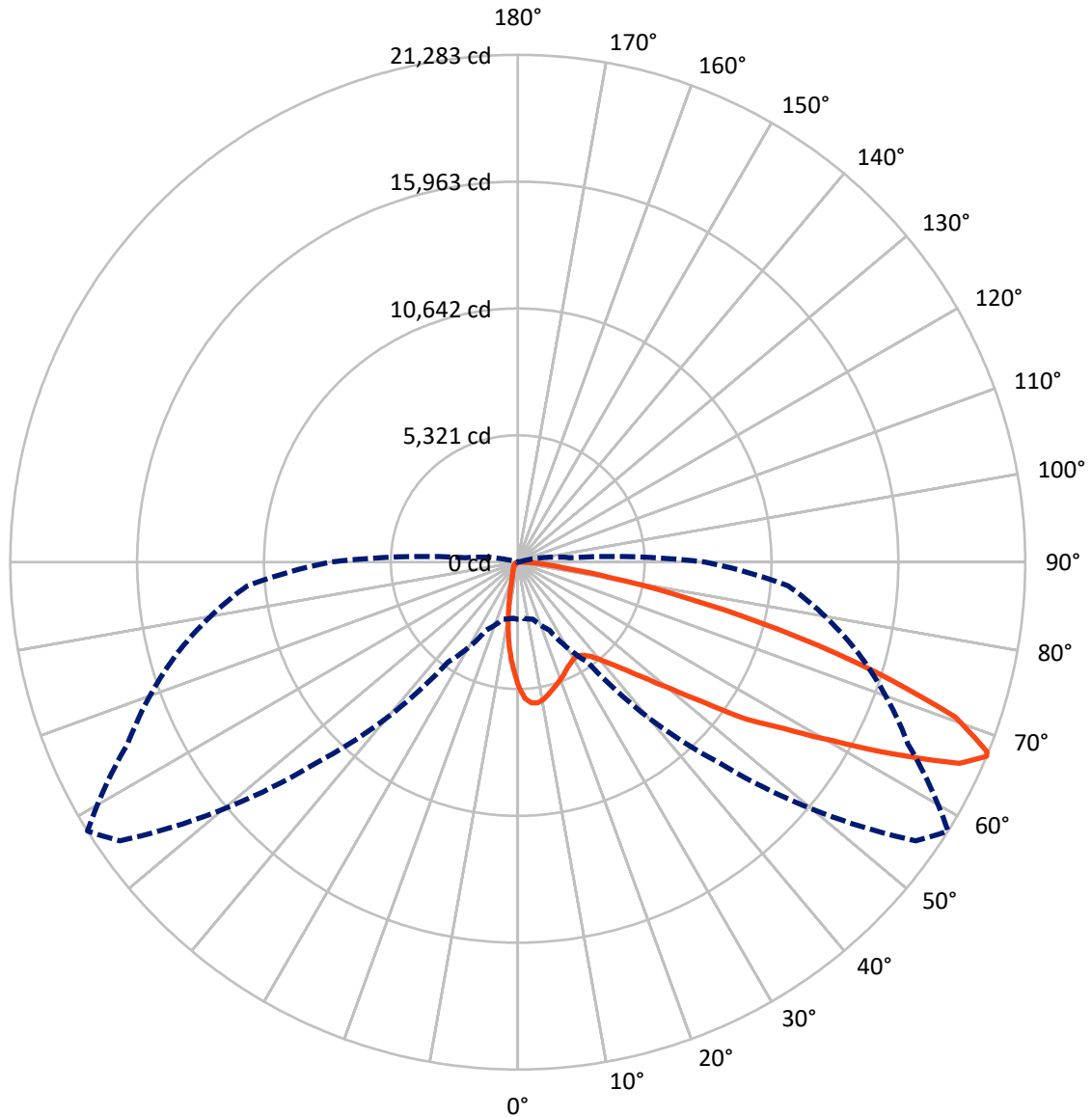
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1422.7	0.0	1422.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	18291.3	0.0	18291.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	19714.0	0.0	19714.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.1	2.2
10°-20°	915.9	4.6
20°-30°	1241.1	6.3
30°-40°	1721.4	8.7
40°-50°	2745.4	13.9
50°-60°	4745.6	24.1
60°-70°	5420.9	27.5
70°-80°	2260.0	11.5
80°-90°	239.6	1.2
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°	19714.0	100.0
0°-180°	19714.0	100.0



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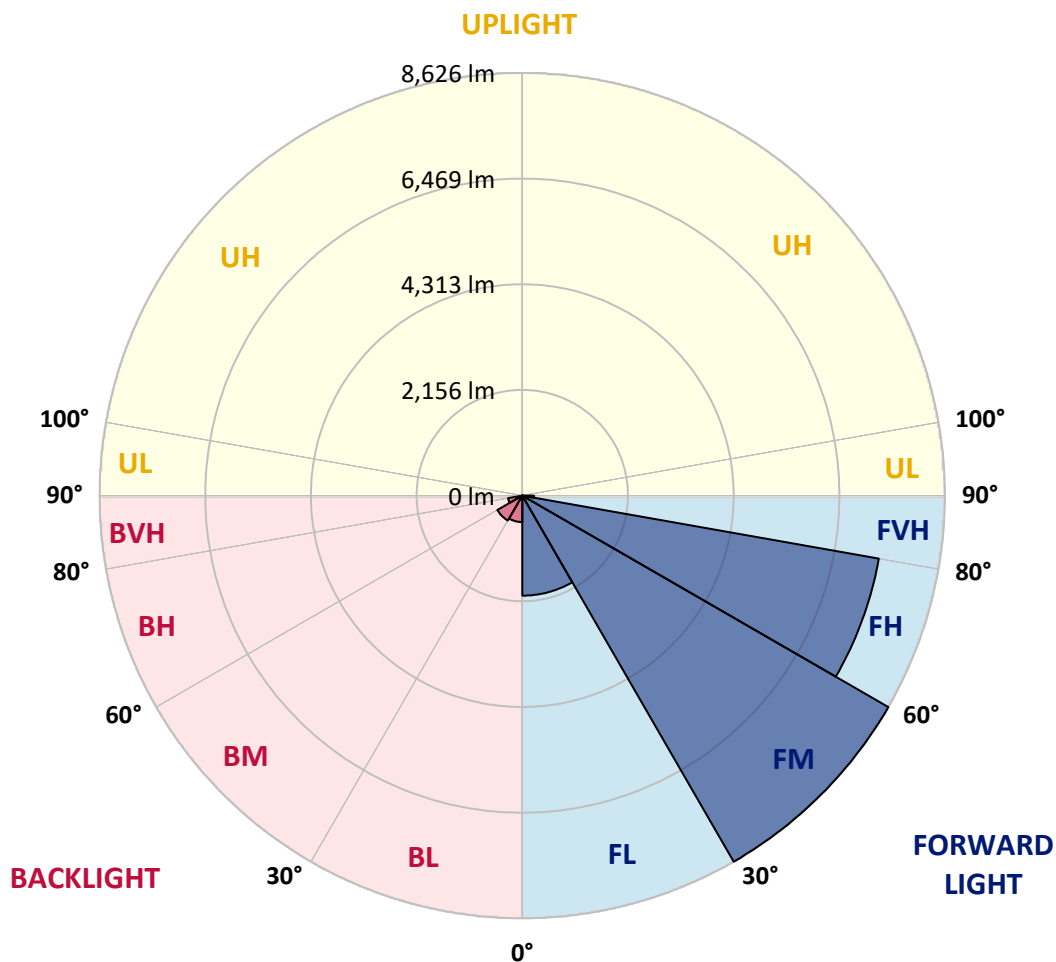
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2040.9	10.4			
FM (30°-60°)	8625.7	43.8			
FH (60°-80°)	7386.9	37.5			G3/7500
FVH (80°-90°)	237.9	1.2			G3/500
BL (0°-30°)	540.2	2.7	B2/1000		
BM (30°-60°)	586.6	3.0	B1/1000		
BH (60°-80°)	294.1	1.5	B1/500		G1/500
BVH (80°-90°)	1.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5226.0	5226.0	5226.0	5226.0	5226.0	5226.0	5226.0	5226.0	5226.0	5226.0	5226.0
2.5°	6065.2	6074.4	6040.1	6012.5	5941.3	5864.9	5763.5	5709.5	5617.3	5457.9	5281.3
5°	6207.4	6219.3	6214.0	6207.4	6179.8	6106.0	5976.9	5929.5	5793.8	5534.3	5215.5
7.5°	5891.3	5934.7	5940.0	5991.4	6040.1	6046.7	5998.0	5962.4	5837.3	5532.9	5098.2
10°	5472.3	5501.3	5543.5	5602.8	5720.0	5817.5	5864.9	5859.7	5787.2	5492.1	4961.2
12.5°	5049.5	5065.3	5129.8	5231.3	5374.9	5540.9	5667.3	5692.3	5693.7	5443.4	4846.6
15°	4685.9	4679.3	4729.4	4846.6	5048.2	5256.3	5482.9	5522.4	5585.6	5395.9	4739.9
17.5°	4375.0	4409.2	4417.1	4546.2	4732.0	5002.0	5290.6	5360.4	5486.8	5355.1	4651.6
20°	4182.6	4201.1	4218.2	4290.7	4458.0	4742.5	5110.1	5206.2	5394.6	5318.2	4552.8
22.5°	4126.0	4137.9	4123.4	4145.8	4264.3	4517.3	4913.8	5041.6	5306.4	5284.0	4472.5
25°	4169.5	4181.3	4147.1	4120.7	4161.6	4334.1	4724.1	4879.5	5235.2	5277.4	4411.9
27.5°	4274.9	4297.3	4249.8	4202.4	4178.7	4235.3	4575.2	4755.7	5186.5	5309.0	4384.2
30°	4439.5	4452.7	4417.1	4359.2	4305.2	4248.5	4497.5	4670.1	5173.3	5382.8	4381.6
32.5°	4618.7	4646.4	4626.6	4588.4	4518.6	4384.2	4519.9	4672.7	5204.9	5489.5	4414.5
35°	4840.0	4871.6	4890.1	4882.2	4792.6	4625.3	4662.2	4791.3	5289.2	5685.8	4504.1
37.5°	5057.4	5085.0	5189.1	5224.7	5145.6	4987.6	4938.8	5024.4	5475.0	5942.6	4666.1
40°	5306.4	5343.2	5489.5	5625.2	5587.0	5421.0	5331.4	5402.5	5759.5	6330.0	4973.1
42.5°	5544.8	5610.7	5833.3	6073.1	6108.6	5922.9	5863.6	5887.3	6181.1	6887.2	5401.2
45°	5883.4	5945.3	6232.5	6557.9	6725.2	6580.3	6519.7	6515.7	6759.4	7671.0	6095.5
47.5°	6372.1	6427.4	6766.0	7087.4	7385.2	7404.9	7290.3	7329.8	7486.6	8587.9	6946.5
50°	6971.5	7101.9	7324.6	7659.2	8057.0	8378.5	8414.0	8361.3	8495.7	9649.7	7968.8
52.5°	7842.3	7892.4	8096.5	8371.9	8838.2	9383.6	9806.5	9734.0	9691.9	10661.5	9001.6
55°	8491.8	8558.9	8876.4	9254.5	9938.2	10657.5	11574.4	11599.4	11067.2	11633.7	10012.0
57.5°	8295.5	8398.2	8879.1	9639.2	11142.3	12457.0	13139.4	13156.6	12339.8	12578.2	11152.8
60°	7287.7	7336.4	8025.4	9039.8	11245.1	14406.7	15359.2	15220.9	13634.8	13634.8	12160.6
62.5°	5168.0	5244.4	5803.0	7295.6	10155.6	15083.9	18017.6	17731.8	15418.5	14645.2	12761.3
65°	3302.6	3228.9	3599.1	4605.5	7565.6	14084.0	20332.3	20349.4	17096.8	15049.6	12433.3
67°	2392.3	2363.4	2470.1	3148.5	5129.8	11839.2	20381.0	21283.4	18061.1	14794.0	11384.7
67.5°	2188.1	2210.5	2288.3	2840.2	4660.8	10773.4	20159.7	21228.1	18278.5	14639.9	11005.3
70°	1658.6	1620.4	1704.7	2009.0	2794.1	6796.3	17341.8	19469.4	18008.4	13110.5	8793.4
72.5°	1219.9	1215.9	1333.2	1642.8	2151.3	3620.1	13018.2	15610.8	14712.4	9983.0	5536.9
75°	823.4	860.2	1047.3	1372.7	1949.7	2347.6	8875.1	11325.4	10213.6	5668.6	2263.2
77.5°	469.0	471.6	674.5	1102.6	1750.8	1889.1	5258.9	7215.2	5406.5	1885.2	671.9
80°	202.9	222.6	334.6	801.0	1451.7	1673.1	3015.5	3965.3	2186.8	399.2	217.4
82.5°	75.1	88.3	147.5	492.7	1059.2	1378.0	1821.9	1893.1	741.7	141.0	135.7
85°	0.0	2.6	54.0	230.5	552.0	615.2	1217.2	1122.4	328.0	67.2	88.3
87.5°	0.0	0.0	0.0	23.7	72.5	229.2	378.1	421.6	79.0	23.7	21.1
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°	5226.0	5226.0	5226.0	5226.0	5226.0	5226.0	5226.0	5226.0	5226.0	5226.0	5226.0
2.5°	5186.5	5100.9	4886.1	4671.4	4512.0	4378.9	4178.7	4069.4	4011.4	3925.8	3931.0
5°	5056.1	4882.2	4504.1	4112.8	3796.7	3488.4	3119.5	2970.7	2845.5	2774.4	2727.0
7.5°	4862.4	4605.5	4045.6	3524.0	3037.9	2499.0	2094.6	1824.6	1642.8	1575.6	1511.0
10°	4650.3	4309.1	3580.6	2857.4	2182.9	1626.9	1284.4	1036.8	948.5	866.8	874.7
12.5°	4454.0	4039.1	3153.8	2255.3	1529.5	1034.1	806.2	704.8	675.8	666.6	666.6
15°	4293.3	3780.8	2695.3	1695.5	1048.6	743.0	645.5	617.8	607.3	604.7	604.7
17.5°	4122.0	3535.8	2281.7	1252.8	762.8	621.8	588.9	570.4	566.5	563.8	563.8
20°	3969.2	3289.5	1889.1	932.7	616.5	559.9	538.8	526.9	523.0	520.4	521.7
22.5°	3824.3	3070.8	1520.2	704.8	542.8	509.8	488.7	476.9	469.0	462.4	463.7
25°	3695.2	2860.0	1222.5	577.0	488.7	459.8	438.7	421.6	404.4	396.5	395.2
27.5°	3604.3	2675.6	952.5	494.0	440.0	408.4	382.0	361.0	338.6	326.7	324.1
30°	3529.2	2488.5	753.5	436.0	391.3	361.0	328.0	297.7	274.0	262.2	256.9
32.5°	3480.5	2310.7	594.1	388.6	350.4	313.5	276.6	246.3	220.0	208.1	205.5
35°	3472.6	2161.8	486.1	349.1	313.5	274.0	235.8	202.9	180.5	168.6	166.0
37.5°	3529.2	2047.2	407.1	317.5	283.2	239.8	197.6	167.3	147.5	138.3	137.0
40°	3680.7	1974.7	353.1	291.1	255.6	208.1	168.6	142.3	122.5	113.3	113.3
42.5°	3969.2	1977.4	317.5	266.1	227.9	177.8	143.6	118.6	101.4	93.5	90.9
45°	4419.8	2067.0	287.2	241.1	201.6	154.1	122.5	97.5	80.4	73.8	73.8
47.5°	5023.1	2244.8	260.8	216.0	177.8	131.7	104.1	79.0	64.6	58.0	58.0
50°	5812.2	2530.7	238.4	195.0	158.1	113.3	84.3	64.6	50.1	44.8	43.5
52.5°	6636.9	2883.7	212.1	176.5	135.7	96.2	68.5	50.1	38.2	34.3	32.9
55°	7547.2	3228.9	187.1	158.1	110.7	80.4	54.0	39.5	27.7	23.7	23.7
57.5°	8465.4	3567.4	156.8	131.7	86.9	59.3	42.2	29.0	18.4	14.5	14.5
60°	9242.7	3676.8	133.1	106.7	65.9	42.2	30.3	18.4	10.5	6.6	6.6
62.5°	9349.4	3307.9	112.0	81.7	47.4	29.0	15.8	10.5	4.0	2.6	2.6
65°	8769.7	2687.4	93.5	61.9	31.6	14.5	6.6	4.0	1.3	0.0	0.0
67°	7858.1	2178.9	76.4	46.1	22.4	9.2	4.0	1.3	0.0	0.0	0.0
67.5°	7624.9	2077.5	73.8	43.5	19.8	7.9	2.6	1.3	0.0	0.0	0.0
70°	5983.5	1555.8	52.7	26.3	11.9	5.3	0.0	0.0	0.0	0.0	0.0
72.5°	3718.9	880.0	38.2	15.8	7.9	2.6	0.0	0.0	0.0	0.0	0.0
75°	1405.6	308.3	26.3	10.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	437.4	117.2	15.8	7.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	147.5	44.8	10.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	90.9	18.4	6.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	56.6	7.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.5	2.6	1.3	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)