

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: P653039

Luminaire Tested: **GLAN-SA8C-840-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39117.4 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

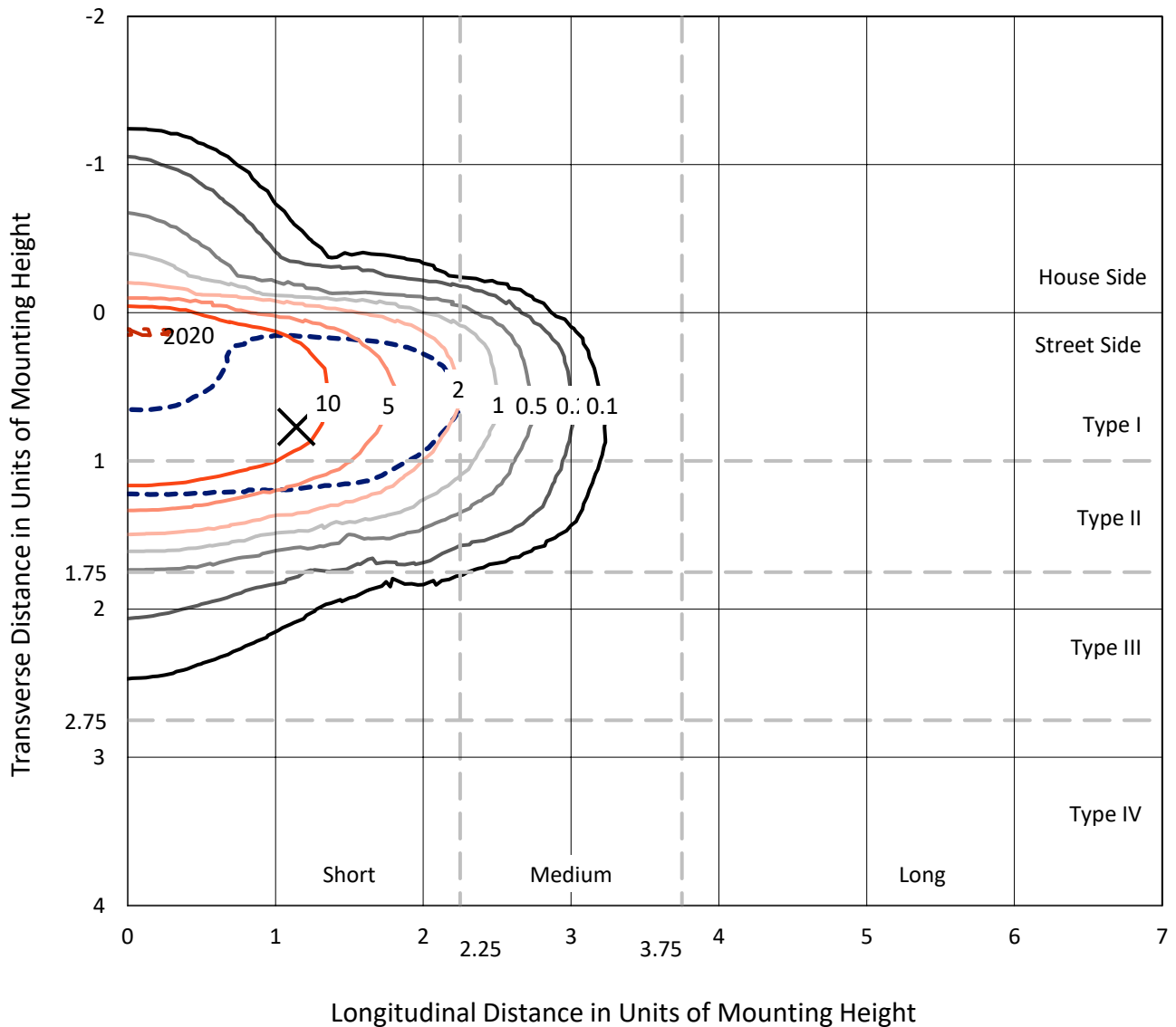
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

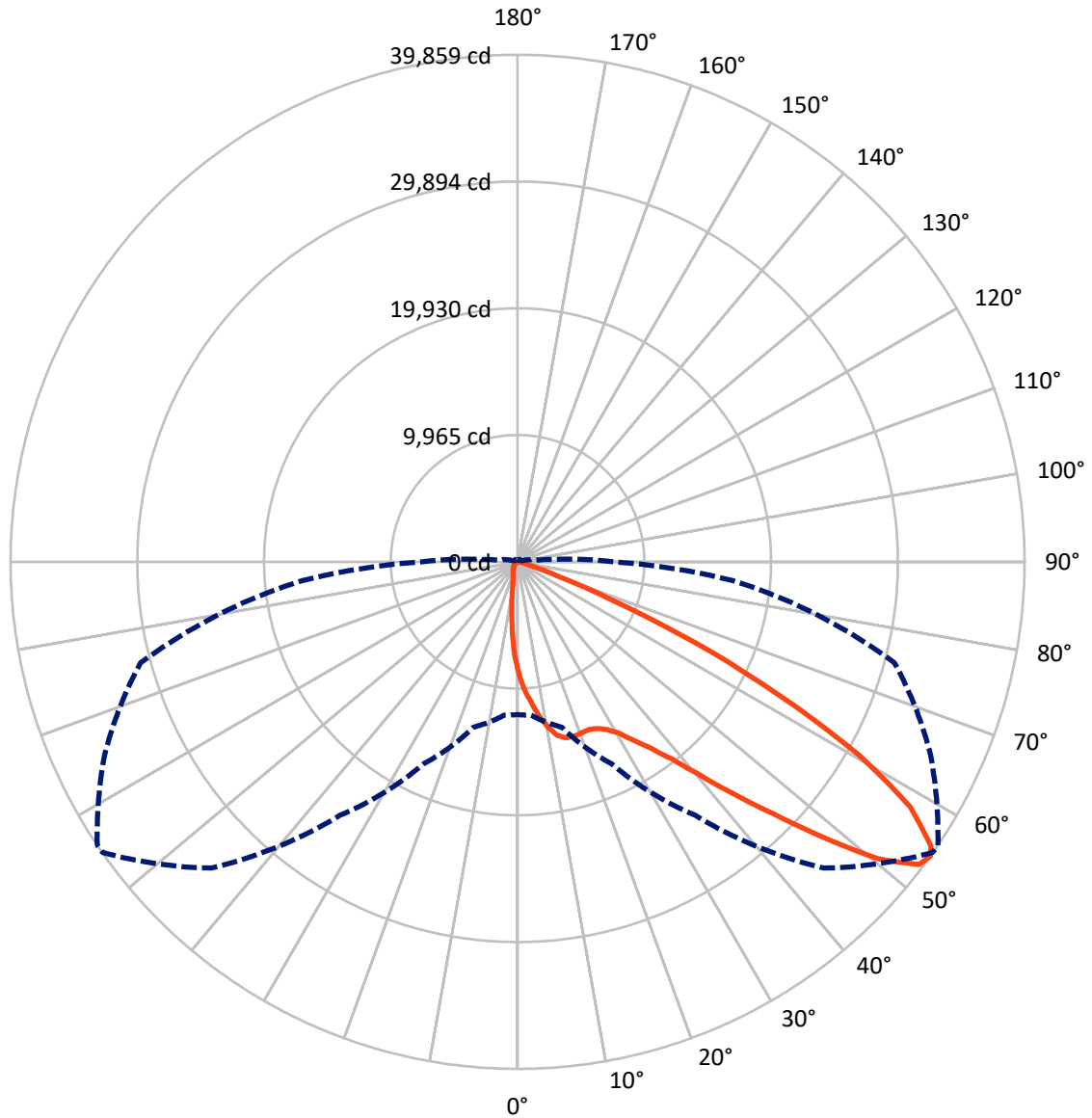
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1849.8	0.0	1849.8
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	37267.6	0.0	37267.6
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	39117.4	0.0	39117.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	768.0	2.0
10°-20°	2076.1	5.3
20°-30°	3595.6	9.2
30°-40°	6206.5	15.9
40°-50°	10563.8	27.0
50°-60°	10454.2	26.7
60°-70°	4771.5	12.2
70°-80°	612.8	1.6
80°-90°	69.0	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°	39117.4	100.0
0°-180°	39117.4	100.0

**Coefficient of Utilization**

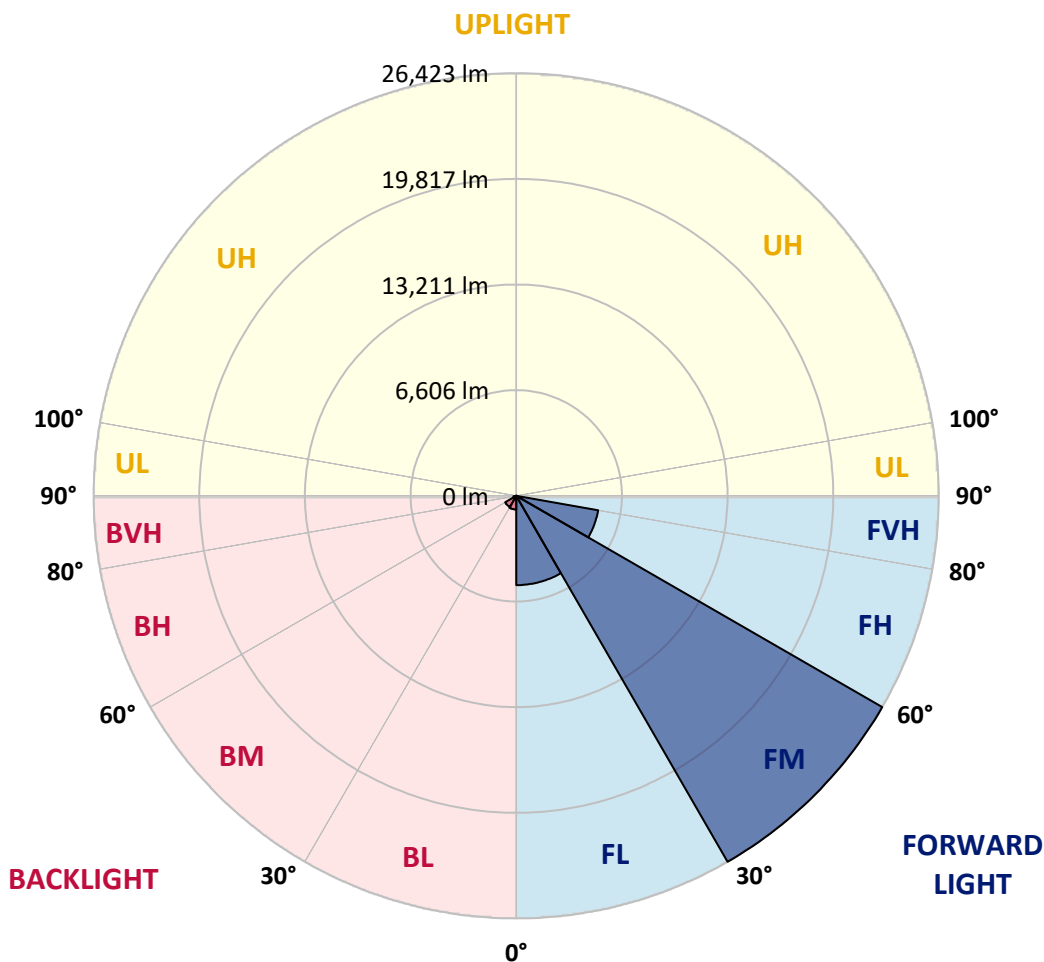


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5584.2	14.3			
FM (30°-60°)	26422.8	67.5			
FH (60°-80°)	5199.0	13.3			G3/7500
FVH (80°-90°)	61.6	0.2			G1/100
BL (0°-30°)	855.5	2.2	B2/1000		
BM (30°-60°)	801.7	2.0	B1/1000		
BH (60°-80°)	185.2	0.5	B1/500		G1/500
BVH (80°-90°)	7.4	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8690.8	8690.8	8690.8	8690.8	8690.8	8690.8	8690.8	8690.8	8690.8	8690.8	8690.8
2.5°	11044.9	10968.4	10862.8	10780.9	10588.4	10311.2	10018.2	10018.2	9735.8	9342.7	8941.5
5°	12739.2	12689.1	12586.2	12375.1	12158.7	11770.6	11182.1	11079.2	10575.2	9862.6	9113.1
7.5°	13428.1	13451.8	13457.1	13401.7	13298.7	12916.1	12332.8	12261.5	11456.6	10501.2	9337.4
10°	12768.3	12884.4	12997.9	13227.5	13552.1	13644.5	13314.5	13240.7	12448.9	11147.8	9580.2
12.5°	11786.5	11849.9	11913.2	12274.7	12926.6	13673.5	14019.2	14016.6	13346.2	11791.8	9889.0
15°	11330.0	11385.4	11390.7	11551.6	12116.4	13203.7	14320.1	14359.7	14222.5	12586.2	10221.5
17.5°	11425.0	11469.8	11432.9	11472.4	11768.0	12686.5	14285.8	14417.8	14932.4	13348.9	10522.3
20°	12045.1	12132.3	11989.7	11878.9	11968.6	12549.2	14169.7	14354.4	15433.9	14093.1	10796.8
22.5°	13158.9	13206.4	13026.9	12723.4	12565.0	12836.9	14138.0	14320.1	15861.3	14702.8	10955.2
25°	14396.7	14380.8	14182.9	13842.4	13509.9	13417.5	14346.5	14510.1	16215.1	15251.7	11002.7
27.5°	15634.4	15681.9	15349.3	14927.1	14528.6	14288.4	14813.6	14935.1	16613.5	15877.2	11060.7
30°	17072.7	16996.2	16669.0	16186.0	15729.4	15394.3	15565.8	15600.1	17162.5	16705.9	11213.8
32.5°	18943.9	18732.8	18365.9	17521.4	17194.2	16626.7	16669.0	16711.2	17830.2	17526.7	11398.6
35°	21482.8	21472.2	20754.4	19616.9	18819.9	18115.2	17930.5	17964.8	18841.0	18746.0	11807.6
37.5°	24539.0	24581.2	23763.0	22617.6	21150.2	20031.3	19651.2	19656.5	20377.0	20429.7	12430.5
40°	27027.7	27138.6	26650.3	25877.0	24428.1	22678.3	22039.7	21981.6	22535.9	22469.8	13319.8
42.5°	28099.2	28202.1	28384.3	28653.4	27856.4	26412.8	24905.8	24984.9	25153.9	24692.0	14317.4
45°	27574.0	27737.6	28452.8	30115.5	30865.0	30379.4	28582.1	28305.0	27589.8	27106.9	15320.3
47.5°	25386.1	25784.6	26980.2	29748.7	32372.0	34013.6	32730.9	32364.0	30028.4	28869.8	15959.1
50°	21789.0	21812.7	23478.0	27017.1	31590.8	36307.0	36966.7	36692.3	32300.7	29859.5	16281.0
52.5°	15795.4	16315.3	17840.7	21939.3	28207.4	35958.6	39666.6	39553.2	34644.3	30366.2	16745.5
54°	12008.2	12108.5	13465.0	17532.0	24319.9	34045.2	39832.9	39859.3	35808.2	30672.4	17020.0
55°	9844.1	9603.9	11029.0	14935.1	21667.5	32353.5	39289.2	39415.9	36330.8	30830.7	17223.2
57.5°	4666.0	4668.6	5758.7	7877.9	13570.5	25122.2	35966.5	36415.2	36388.8	31102.5	17848.7
60°	2362.0	2377.9	2618.0	3636.7	6703.4	16700.7	29738.1	30807.0	33588.6	31142.1	18054.5
62.5°	1652.1	1633.6	1594.0	1749.8	2821.3	8487.5	22139.9	23069.0	28537.3	29635.2	17400.0
65°	1414.6	1375.0	1264.2	1240.4	1425.2	3380.7	13789.6	15304.5	21789.0	25660.6	15536.8
67.5°	1208.8	1192.9	1092.6	1031.9	1008.2	1472.7	7115.2	7912.2	14892.8	18445.1	11768.0
70°	1026.6	1018.7	958.0	881.5	815.5	881.5	2639.1	3269.9	8300.2	9931.2	5552.8
72.5°	833.9	841.9	852.4	754.8	686.2	625.5	1126.9	1311.6	3473.2	3549.7	1942.5
75°	731.1	723.1	723.1	657.2	572.7	464.5	620.2	667.7	1063.6	987.1	451.3
77.5°	514.6	496.2	580.6	541.0	477.7	329.9	353.6	374.7	440.8	377.4	211.2
80°	356.2	356.2	372.1	485.6	430.2	240.2	216.4	232.3	261.3	224.3	121.4
82.5°	200.6	205.9	242.8	258.6	250.7	161.0	142.5	145.2	174.2	153.1	76.5
85°	23.7	39.6	139.9	137.3	102.9	71.2	79.1	81.8	108.2	95.0	44.8
87.5°	2.6	5.3	29.0	36.9	26.4	29.0	29.0	29.0	36.9	42.2	31.7
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°	8690.8	8690.8	8690.8	8690.8	8690.8	8690.8	8690.8	8690.8	8690.8	8690.8	8690.8
2.5°	8725.0	8524.5	8046.8	7492.6	7138.9	6563.6	6078.0	5727.0	5639.9	5471.0	5521.2
5°	8714.5	8297.6	7323.7	6294.4	5196.5	4378.4	3768.7	3288.4	3077.3	2937.4	2839.7
7.5°	8719.8	8068.0	6505.6	4866.6	3555.0	2752.7	2187.9	1894.9	1699.7	1617.8	1628.3
10°	8735.6	7809.3	5555.5	3605.1	2399.0	1778.8	1433.1	1293.2	1227.2	1216.7	1214.0
12.5°	8772.6	7526.9	4647.5	2676.1	1678.5	1293.2	1161.3	1113.7	1092.6	1092.6	1084.7
15°	8812.2	7215.4	3892.7	1989.9	1293.2	1111.1	1050.4	1026.6	1013.4	1013.4	1010.8
17.5°	8812.2	6856.6	3188.1	1543.9	1113.7	1021.4	973.9	942.2	931.7	931.7	929.0
20°	8756.7	6439.5	2562.6	1243.1	1010.8	936.9	889.4	855.1	841.9	836.6	833.9
22.5°	8564.1	5882.7	2040.1	1068.8	926.4	863.0	802.3	762.7	752.2	746.9	749.5
25°	8221.0	5254.6	1615.1	939.6	849.8	773.3	720.5	691.5	680.9	680.9	683.6
27.5°	7867.4	4597.4	1280.0	841.9	757.4	688.9	646.6	628.1	625.5	633.4	636.0
30°	7540.1	3937.6	1037.2	762.7	675.7	617.5	588.5	583.2	583.2	585.9	588.5
32.5°	7175.9	3359.6	868.2	694.1	609.6	559.5	543.7	543.7	548.9	548.9	554.2
35°	6946.2	2863.5	762.7	628.1	559.5	517.3	506.7	509.4	517.3	527.8	533.1
37.5°	6822.3	2467.6	694.1	575.3	512.0	483.0	472.4	477.7	496.2	514.6	517.3
40°	6832.8	2169.4	638.7	530.5	475.1	443.4	435.5	451.3	469.8	488.3	490.9
42.5°	6948.9	1947.7	585.9	477.7	443.4	398.5	395.9	411.7	419.7	438.1	440.8
45°	7086.2	1786.7	530.5	422.3	385.3	345.7	348.3	361.5	372.1	401.2	406.5
47.5°	7128.4	1675.9	467.1	358.9	316.7	303.5	306.1	314.0	335.1	361.5	364.2
50°	7175.9	1607.2	406.5	303.5	269.2	266.6	269.2	274.5	287.7	298.2	295.6
52.5°	7379.1	1604.6	356.2	263.9	229.6	234.9	237.5	234.9	224.3	208.5	203.2
54°	7569.1	1612.5	332.5	245.4	211.2	219.1	216.4	203.2	176.9	161.0	153.1
55°	7722.2	1620.4	319.3	232.3	200.6	203.2	205.9	179.5	145.2	129.3	124.0
57.5°	8023.1	1601.9	287.7	203.2	176.9	166.3	163.7	118.7	79.1	68.6	63.3
60°	7872.6	1446.3	261.3	174.2	150.5	134.6	110.8	66.0	39.6	29.0	29.0
62.5°	7281.5	1227.2	232.3	142.5	124.0	102.9	58.0	36.9	18.5	10.6	7.9
65°	6513.5	1031.9	208.5	113.5	97.6	66.0	31.7	23.7	7.9	0.0	0.0
67.5°	4842.9	765.4	176.9	89.7	73.9	42.2	21.1	13.2	2.6	0.0	0.0
70°	2243.3	467.1	150.5	68.6	52.8	31.7	15.8	7.9	0.0	0.0	0.0
72.5°	644.0	292.9	124.0	50.1	36.9	26.4	13.2	5.3	2.6	0.0	0.0
75°	224.3	234.9	92.3	36.9	29.0	18.5	10.6	5.3	2.6	0.0	0.0
77.5°	134.6	190.0	58.0	31.7	23.7	15.8	10.6	5.3	2.6	2.6	0.0
80°	76.5	126.7	36.9	26.4	21.1	13.2	7.9	5.3	2.6	2.6	0.0
82.5°	42.2	60.7	29.0	23.7	18.5	13.2	7.9	5.3	2.6	2.6	2.6
85°	34.3	31.7	23.7	21.1	15.8	10.6	7.9	2.6	0.0	0.0	0.0
87.5°	26.4	21.1	21.1	21.1	15.8	10.6	7.9	2.6	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)