

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: P323792

Luminaire Tested: **GAN-SA8A-730-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323792  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27605 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

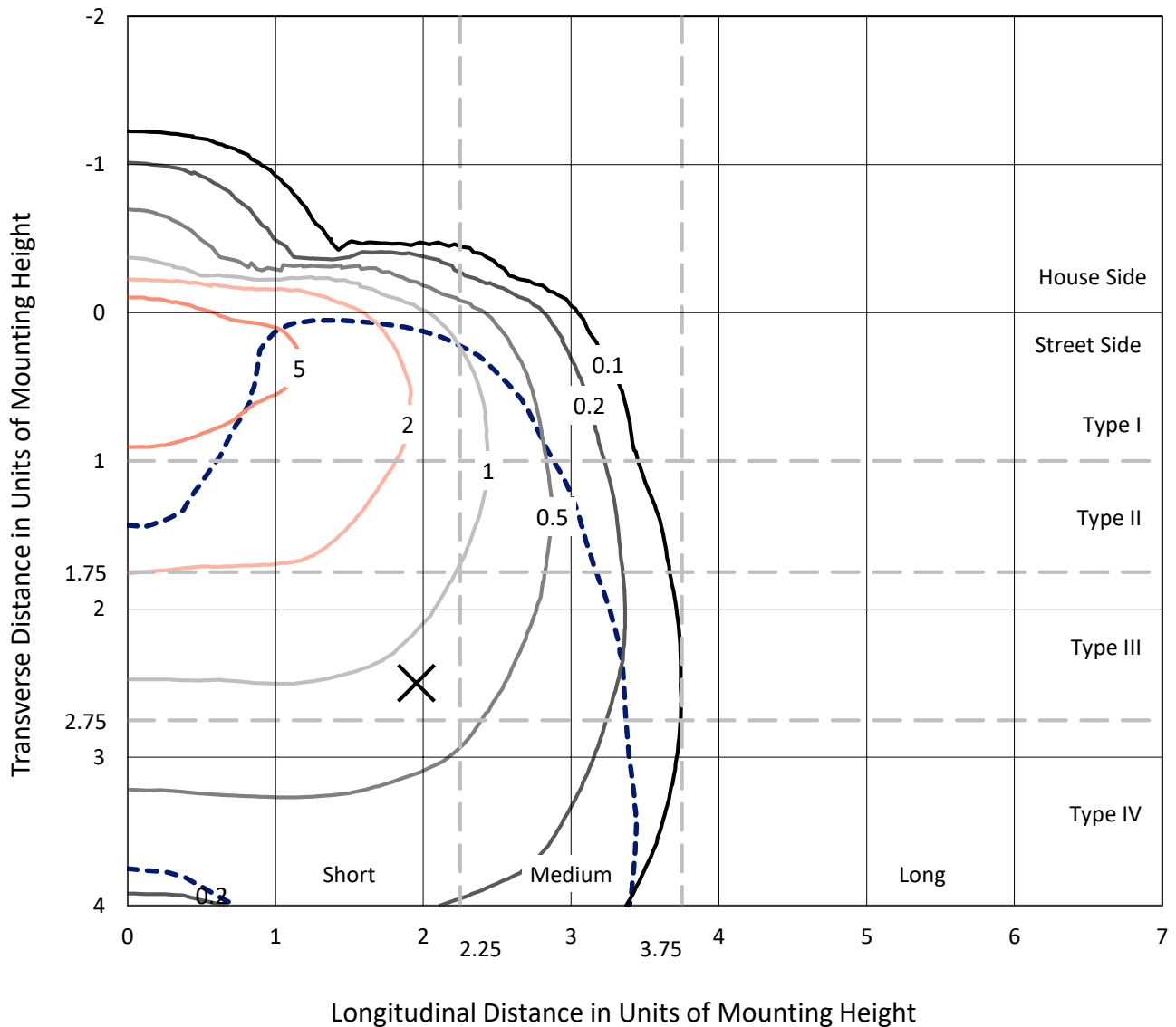
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

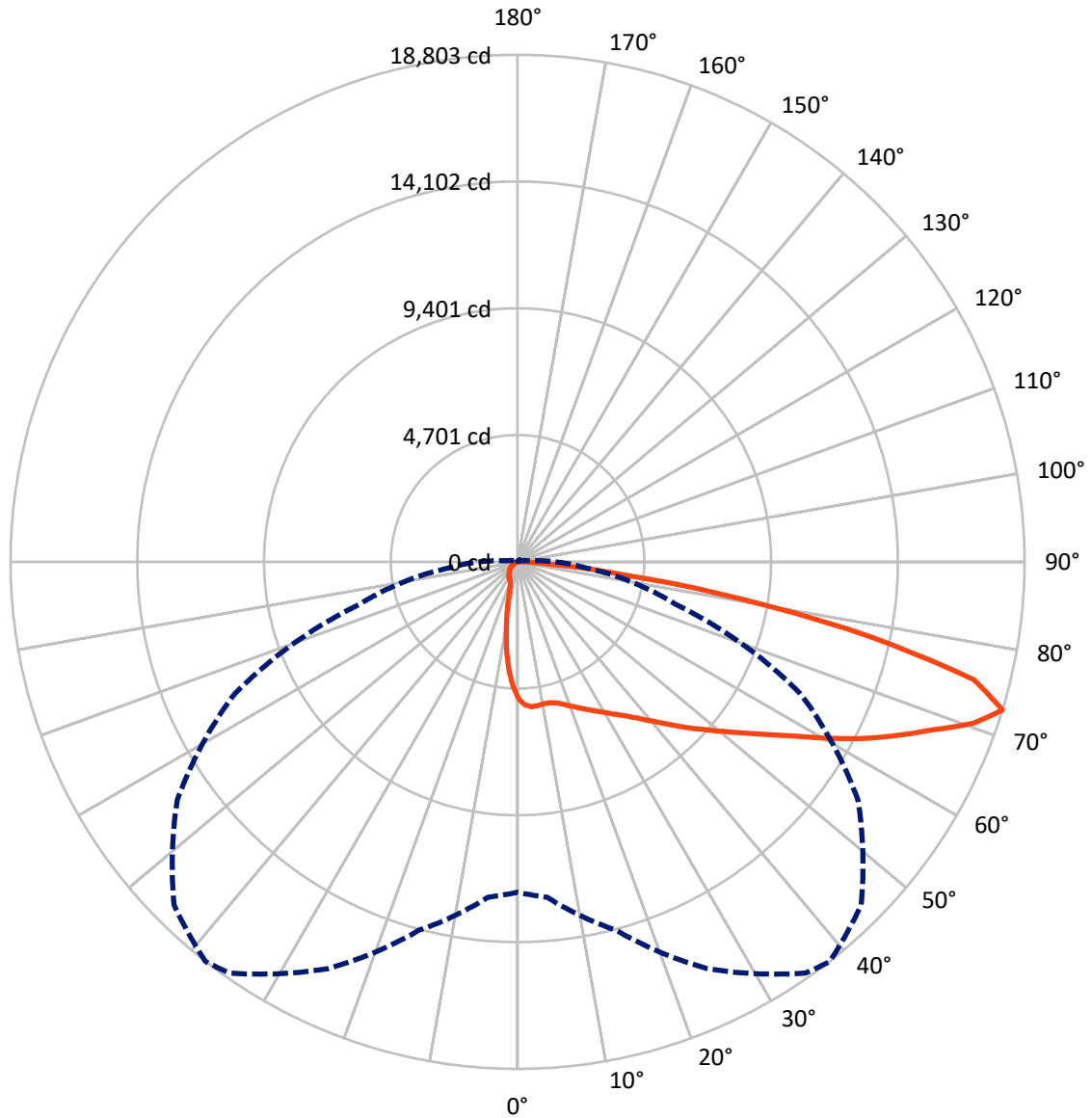
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P323792  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2323.1	0.0	2323.1
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	25281.9	0.0	25281.9
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	27605.0	0.0	27605.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.6	1.6
10°-20°	1057.8	3.8
20°-30°	1682.5	6.1
30°-40°	2529.4	9.2
40°-50°	3858.8	14.0
50°-60°	5453.8	19.8
60°-70°	6840.8	24.8
70°-80°	5115.0	18.5
80°-90°	634.2	2.3
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°	27605.0	100.0
0°-180°	27605.0	100.0

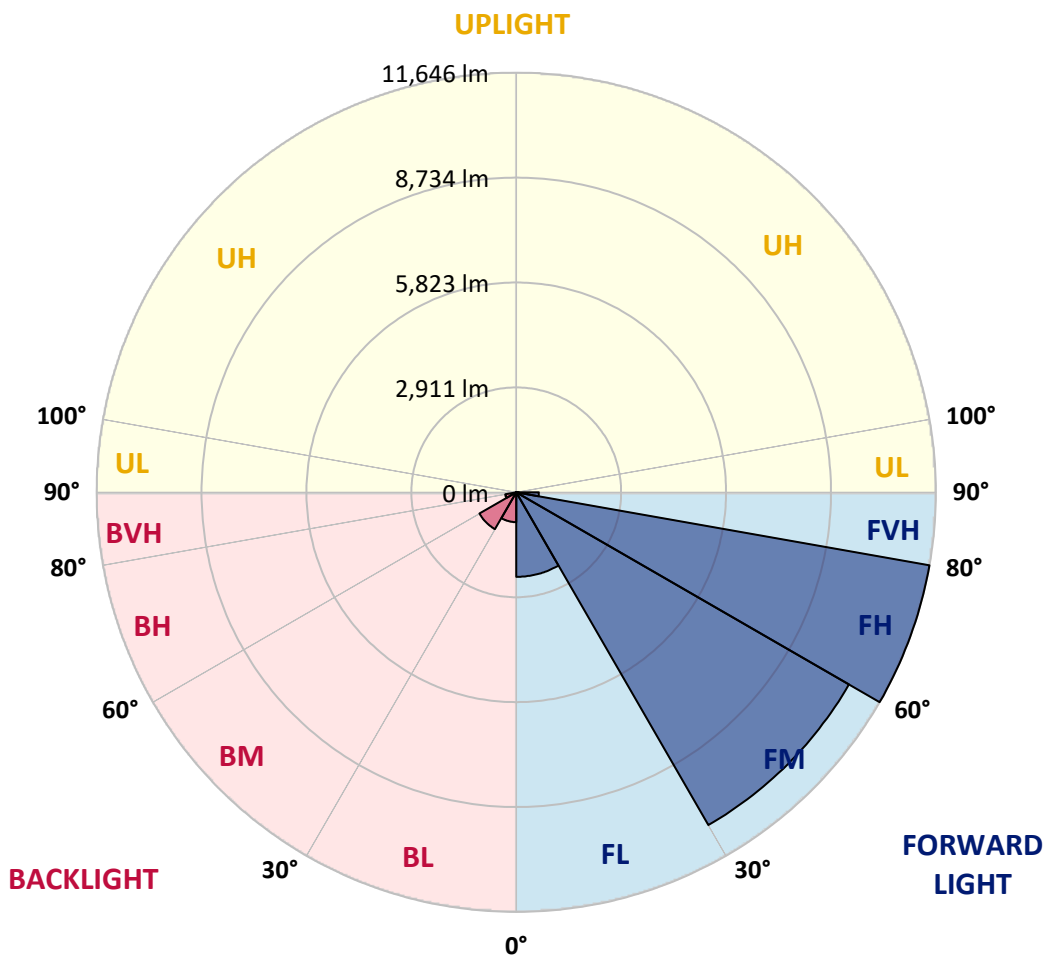


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2345.8	8.5			
FM (30°-60°)	10662.3	38.6			
FH (60°-80°)	11645.6	42.2			G4/12000
FVH (80°-90°)	628.3	2.3			G4/750
BL (0°-30°)	827.2	3.0	B2/1000		
BM (30°-60°)	1179.7	4.3	B2/2500		
BH (60°-80°)	310.3	1.1	B1/500		G1/500
BVH (80°-90°)	5.9	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5
2.5°	5388.3	5389.4	5376.8	5356.2	5329.8	5316.1	5293.1	5256.5	5217.5	5147.5	5071.9
5°	5498.4	5498.4	5482.3	5454.8	5412.4	5399.8	5356.2	5297.7	5217.5	5104.0	4976.7
7.5°	5486.9	5489.2	5467.4	5438.7	5396.3	5384.9	5332.1	5266.8	5167.0	5029.5	4866.7
10°	5427.3	5433.0	5415.8	5402.1	5363.1	5350.5	5301.2	5235.8	5136.1	4989.3	4802.5
12.5°	5366.5	5372.3	5378.0	5390.6	5366.5	5361.9	5323.0	5267.9	5172.8	5020.3	4809.3
15°	5327.5	5339.0	5380.3	5429.6	5435.3	5430.7	5405.5	5353.9	5257.6	5099.4	4858.6
17.5°	5327.5	5345.9	5431.9	5525.9	5559.1	5562.6	5540.8	5468.6	5353.9	5184.2	4904.5
20°	5372.3	5397.5	5531.6	5664.6	5719.6	5719.6	5677.2	5576.3	5442.2	5261.0	4935.5
22.5°	5486.9	5520.1	5688.7	5842.3	5900.8	5888.2	5830.8	5684.1	5533.9	5348.2	4974.4
25°	5712.7	5738.0	5913.4	6068.1	6103.7	6075.0	6002.8	5814.8	5650.8	5466.3	5045.5
27.5°	6003.9	6007.4	6188.5	6319.2	6297.4	6277.9	6187.4	5978.7	5819.4	5634.8	5168.2
30°	6323.8	6323.8	6483.2	6582.9	6516.4	6500.4	6409.8	6177.1	6034.9	5864.1	5342.4
32.5°	6633.3	6647.1	6776.6	6839.7	6765.2	6749.1	6660.9	6428.1	6321.5	6213.7	5614.2
35°	6932.6	6942.9	7065.6	7099.9	7028.9	7033.5	6970.4	6773.2	6733.1	6719.3	6023.4
37.5°	7222.6	7224.9	7349.9	7371.7	7336.1	7375.1	7380.8	7206.6	7281.1	7392.3	6600.1
40°	7487.4	7489.7	7613.6	7669.7	7730.5	7780.9	7825.6	7732.8	7979.3	8237.2	7286.8
42.5°	7699.5	7723.6	7880.7	7987.3	8147.8	8244.1	8365.6	8361.0	8810.4	9197.9	8116.8
45°	7886.4	7927.7	8146.7	8333.5	8608.7	8762.3	8952.6	9101.6	9745.9	10267.6	8957.2
47.5°	8132.9	8171.9	8421.8	8727.9	9094.8	9296.5	9611.8	9934.0	10774.3	11317.7	9778.0
50°	8480.3	8463.1	8709.6	9148.6	9619.8	9884.7	10334.1	10816.7	11794.6	12232.6	10260.7
52.5°	8850.6	8843.7	9026.0	9606.1	10238.9	10548.5	11142.3	11729.3	12770.3	12863.1	10482.0
55°	9309.2	9259.9	9413.5	10127.7	10973.8	11306.3	12005.6	12632.7	13547.6	13218.5	10593.2
57.5°	9789.5	9708.1	9854.9	10709.0	11802.7	12195.9	12961.7	13513.2	14064.6	13461.6	10592.0
60°	10285.9	10189.6	10363.9	11435.8	12832.2	13287.3	13998.1	14108.2	14547.3	13584.3	10514.1
62.5°	10700.9	10643.6	10902.7	12213.1	13982.1	14429.2	14781.1	14649.3	14954.3	13679.4	10331.8
65°	11140.0	11143.5	11561.9	13119.9	15204.2	15505.7	15535.5	15350.9	15294.8	13659.9	9715.0
67.5°	11733.9	11788.9	12487.1	14351.2	16393.0	16625.8	16623.5	16111.0	15543.5	12884.9	8347.3
70°	12362.1	12491.7	13553.3	15760.2	17690.8	17927.0	17805.5	16594.8	14635.5	10418.9	5907.6
72.5°	12256.7	12481.4	14146.0	16648.7	18622.9	18802.9	18013.0	15406.0	11567.7	6055.5	2515.3
75°	9455.9	9716.1	12970.9	15768.2	17645.0	17483.3	15477.0	11988.4	6321.5	1689.9	566.3
77.5°	4995.1	5133.8	8568.5	12012.5	13758.5	13420.3	10902.7	6650.5	1927.2	418.5	254.5
80°	2616.2	2648.3	3734.0	6815.6	8491.7	8494.0	6461.4	2921.1	794.5	214.4	170.8
82.5°	1401.0	1428.5	1973.0	3149.3	4449.4	4033.2	2474.0	1607.3	462.0	121.5	163.9
85°	337.1	342.8	1118.9	1438.8	1749.5	1249.6	734.9	1349.4	125.0	71.1	133.0
87.5°	129.5	131.8	415.0	622.5	446.0	288.9	343.9	503.3	16.1	27.5	20.6
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: P323792

CATALOG NUMBER: GAN-SA8A-730-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5
2.5°	5026.0	4996.2	4922.8	4830.0	4747.4	4687.8	4598.4	4539.9	4501.0	4499.8	4484.9
5°	4898.8	4838.0	4679.8	4491.8	4321.0	4167.3	3986.2	3842.9	3736.3	3719.1	3682.4
7.5°	4762.3	4662.6	4419.6	4126.1	3839.5	3548.3	3210.1	3000.3	2820.3	2734.3	2725.1
10°	4678.7	4538.8	4193.7	3769.5	3320.1	2846.6	2404.1	2098.0	1876.7	1813.7	1766.7
12.5°	4661.5	4476.9	4019.4	3434.8	2792.7	2166.8	1677.3	1351.7	1175.1	1118.9	1104.0
15°	4678.7	4448.2	3872.7	3103.4	2258.5	1537.4	1125.8	936.6	870.2	854.1	853.0
17.5°	4689.0	4413.8	3706.5	2735.4	1740.3	1098.3	862.1	807.1	796.8	795.6	797.9
20°	4687.8	4361.1	3508.1	2325.0	1294.3	863.3	779.6	768.1	765.8	767.0	765.8
22.5°	4679.8	4299.2	3290.3	1902.0	977.9	771.6	744.0	737.2	736.0	736.0	736.0
25°	4694.7	4249.9	3050.7	1497.3	806.0	729.1	711.9	706.2	705.1	705.1	702.8
27.5°	4748.6	4222.4	2788.2	1152.2	728.0	691.3	677.6	676.4	673.0	671.8	674.1
30°	4835.7	4222.4	2500.4	896.5	681.0	652.3	642.0	639.7	638.6	637.4	638.6
32.5°	4989.3	4254.5	2186.3	745.2	636.3	608.8	601.9	605.3	601.9	601.9	601.9
35°	5266.8	4350.8	1857.2	650.0	589.3	566.3	559.5	564.1	561.8	561.8	560.6
37.5°	5671.5	4529.6	1525.9	592.7	548.0	523.9	514.8	521.6	519.3	519.3	518.2
40°	6164.4	4789.9	1210.6	549.1	507.9	482.7	474.6	478.1	472.3	472.3	474.6
42.5°	6773.2	5120.0	935.5	506.7	467.8	443.7	439.1	435.6	425.3	419.6	420.7
45°	7449.6	5464.0	729.1	465.5	429.9	410.4	403.5	394.4	377.2	365.7	366.9
47.5°	8053.8	5728.8	592.7	425.3	395.5	380.6	370.3	353.1	327.9	314.1	315.3
50°	8371.4	5768.9	504.4	385.2	363.4	348.5	333.6	307.2	277.4	262.5	261.4
52.5°	8452.8	5580.9	439.1	348.5	331.3	314.1	294.6	259.1	225.9	209.8	207.5
55°	8482.6	5294.3	380.6	314.1	296.9	277.4	252.2	212.1	181.1	165.1	163.9
57.5°	8384.0	4866.7	334.8	283.2	262.5	238.5	207.5	169.7	139.9	127.3	127.3
60°	8165.0	4287.7	299.2	249.9	227.0	199.5	167.4	131.8	104.3	94.0	94.0
62.5°	7728.2	3537.9	266.0	215.5	193.7	165.1	135.3	99.7	73.4	67.6	68.8
65°	6903.9	2683.8	232.7	184.6	165.1	136.4	105.5	71.1	49.3	49.3	51.6
67.5°	5630.2	1864.1	198.3	157.1	142.2	111.2	80.3	49.3	34.4	39.0	43.6
70°	3727.1	1045.6	169.7	129.5	121.5	88.3	59.6	33.2	27.5	36.7	44.7
72.5°	1406.7	407.0	142.2	104.3	105.5	67.6	42.4	25.2	25.2	40.1	52.7
75°	392.1	199.5	102.0	76.8	82.5	49.3	31.0	21.8	24.1	45.9	61.9
77.5°	230.4	146.7	66.5	44.7	56.2	34.4	20.6	17.2	20.6	39.0	59.6
80°	185.7	78.0	39.0	22.9	31.0	19.5	13.8	10.3	5.7	14.9	31.0
82.5°	185.7	47.0	18.3	16.1	16.1	10.3	6.9	4.6	1.1	0.0	8.0
85°	125.0	19.5	11.5	10.3	8.0	3.4	2.3	1.1	0.0	0.0	0.0
87.5°	20.6	8.0	4.6	2.3	1.1	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)