

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: P192886

Luminaire Tested: **GAN-AF-08-LED-U-SL3-7030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-08-LED-U-SL3-7030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA 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: 43240.4 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 511  
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: 28.75 FT

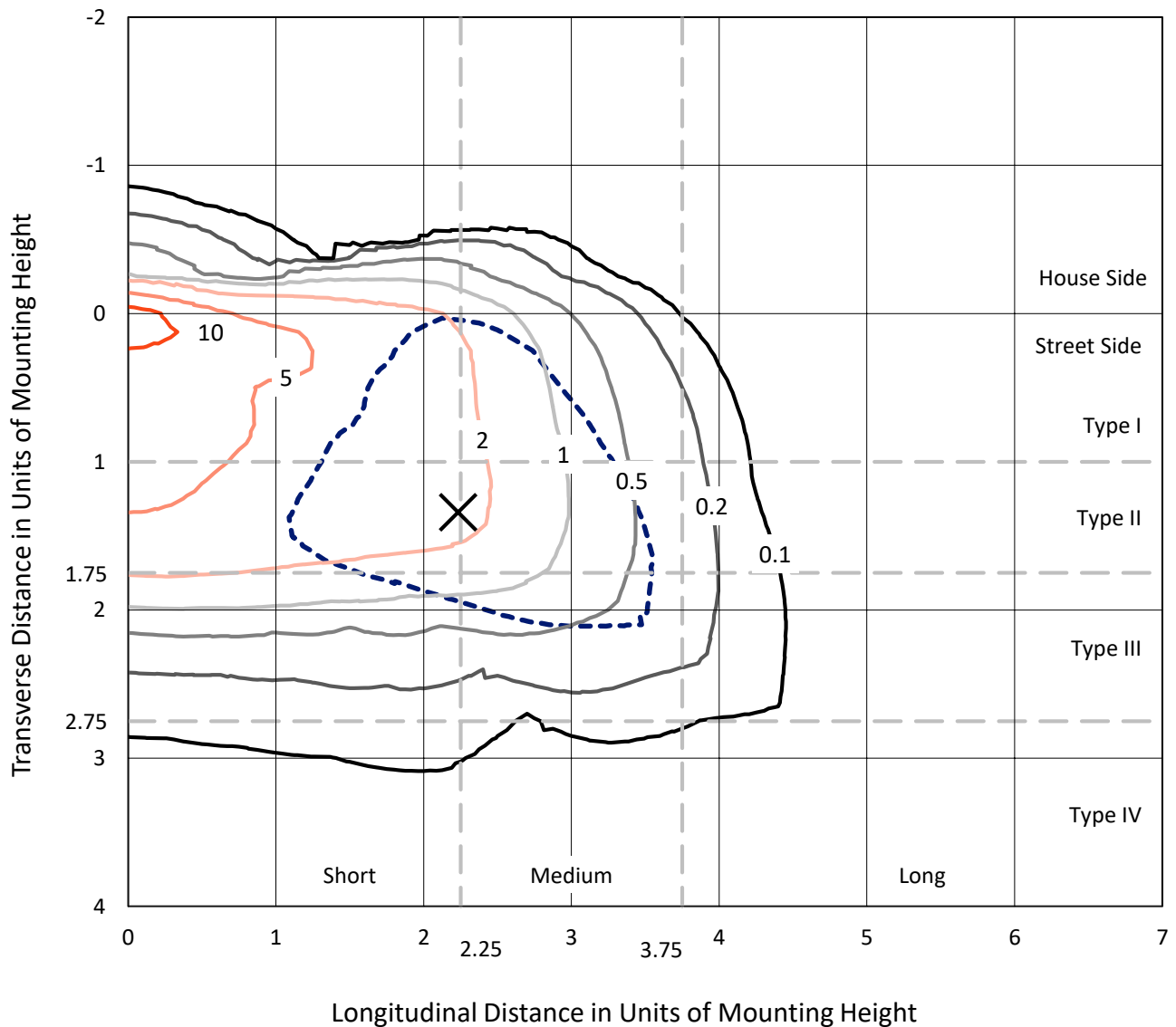


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

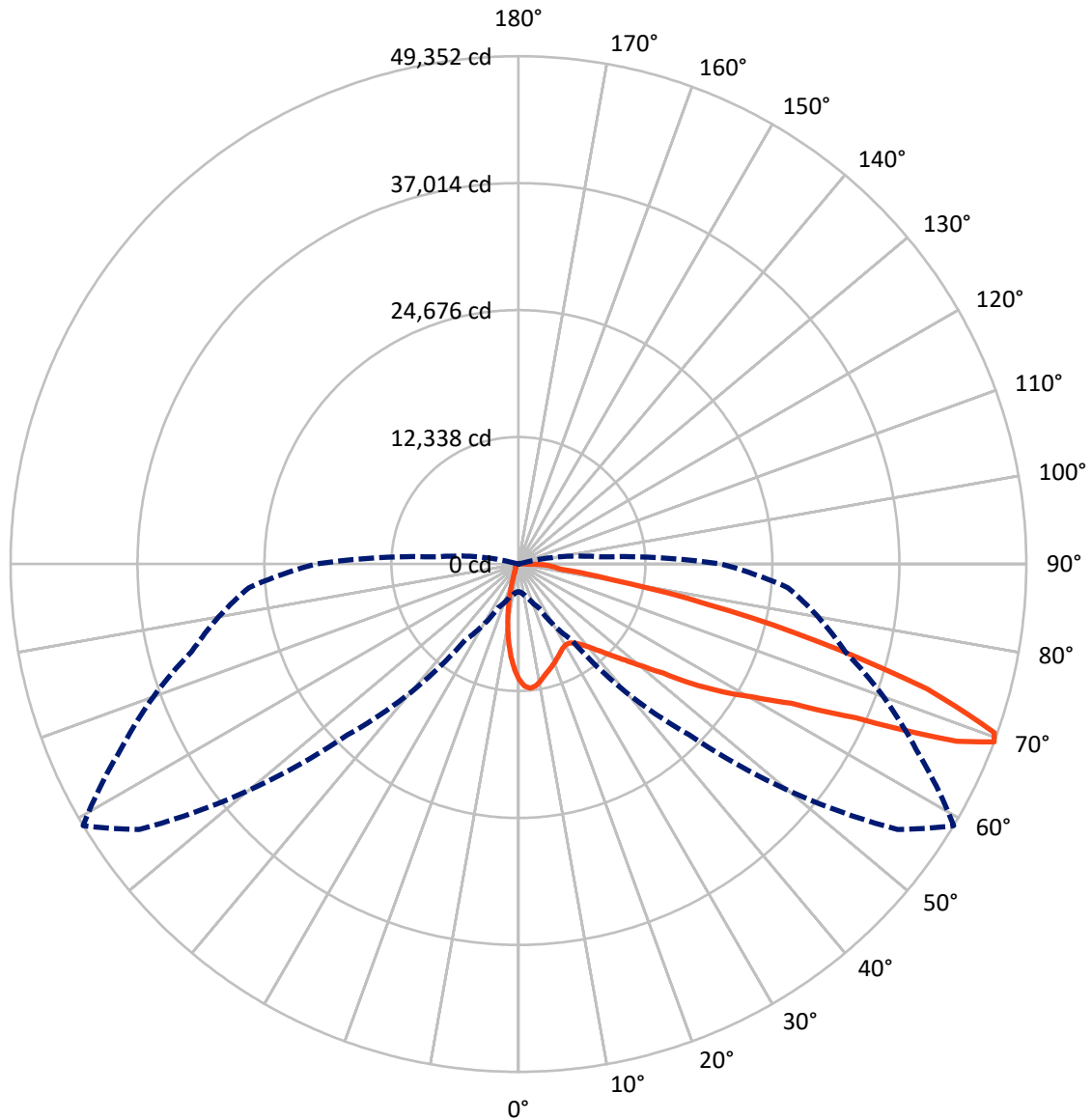


Based on 30 foot mounting height. Maximum calculated value = 12.6 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3521.4	0.0	3521.4
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	39719.1	0.0	39719.1
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	43240.4	0.0	43240.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	913.6	2.1
10°-20°	1887.7	4.4
20°-30°	2540.1	5.9
30°-40°	3688.1	8.5
40°-50°	6140.9	14.2
50°-60°	9579.7	22.2
60°-70°	11854.2	27.4
70°-80°	6007.6	13.9
80°-90°	628.6	1.5
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°	43240.4	100.0
0°-180°	43240.4	100.0

**Coefficient of Utilization**



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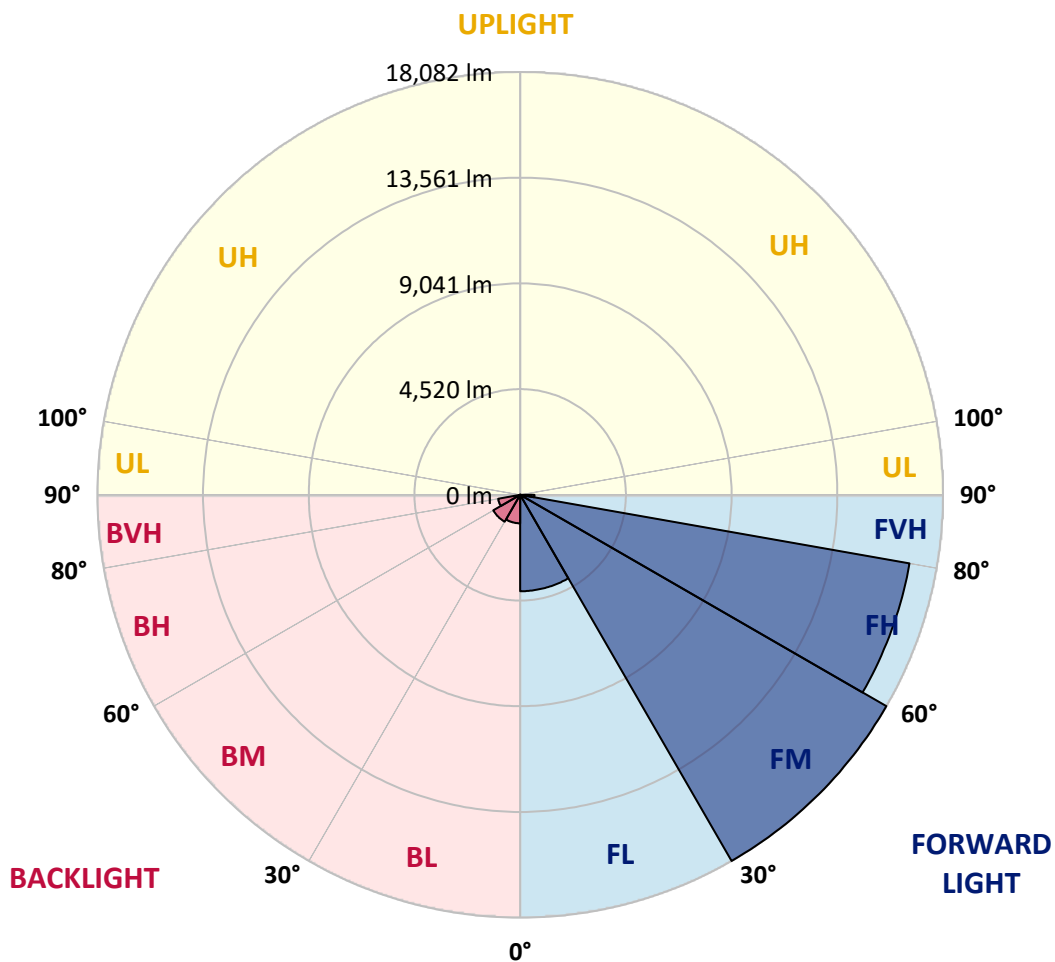
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4122.5	9.5			
FM	(30°-60°)	18081.9	41.8			
FH	(60°-80°)	16905.4	39.1			G5
FVH	(80°-90°)	609.3	1.4			G4/750
BL	(0°-30°)	1218.8	2.8	B3/2500		
BM	(30°-60°)	1326.9	3.1	B2/2500		
BH	(60°-80°)	956.3	2.2	B2/1000		G2/1000
BVH	(80°-90°)	19.3	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	11254.9	11254.9	11254.9	11254.9	11254.9	11254.9	11254.9	11254.9	11254.9	11254.9	11254.9
2.5°	12335.6	12330.8	12276.9	12252.6	12208.5	12115.5	11971.3	11895.5	11773.2	11560.5	11274.5
5°	12223.2	12281.9	12313.6	12316.0	12347.8	12313.6	12184.0	12120.4	11951.8	11609.5	11096.0
7.5°	11460.3	11482.3	11572.7	11651.0	11802.6	11946.9	11993.3	11966.4	11866.2	11499.4	10817.2
10°	10643.6	10665.7	10773.2	10875.8	11081.3	11303.8	11538.6	11587.4	11629.0	11343.0	10548.2
12.5°	9939.5	9961.3	10071.4	10205.9	10445.5	10719.4	11083.7	11164.4	11347.7	11193.7	10333.0
15°	9333.0	9342.8	9450.4	9616.7	9902.7	10254.8	10668.1	10797.6	11078.9	11088.6	10144.8
17.5°	8817.1	8841.6	8907.6	9066.6	9379.5	9814.8	10296.4	10482.3	10812.3	11000.6	9961.3
20°	8501.7	8526.1	8523.7	8611.7	8892.9	9357.5	9924.8	10147.2	10548.2	10910.1	9797.6
22.5°	8440.6	8440.6	8377.0	8364.8	8531.1	8919.8	9538.5	9809.9	10311.2	10871.0	9682.7
25°	8658.1	8648.4	8489.5	8359.9	8367.2	8599.5	9164.3	9487.1	10110.6	10897.9	9621.6
27.5°	9117.9	9105.6	8905.1	8658.1	8460.2	8457.6	8880.7	9227.9	9951.7	11025.1	9646.0
30°	9753.6	9748.6	9531.1	9220.5	8861.2	8531.1	8783.0	9098.3	9848.9	11254.9	9702.2
32.5°	10448.0	10440.7	10276.8	9949.1	9494.4	8861.2	8885.6	9149.6	9878.2	11560.5	9839.2
35°	11184.0	11171.8	11100.8	10814.8	10313.5	9469.9	9223.0	9428.4	10064.1	12017.8	10108.1
37.5°	11981.1	11993.3	12044.6	11770.8	11245.1	10323.3	9787.8	9927.2	10438.2	12638.8	10545.8
40°	13157.2	13154.7	13171.9	12812.4	12306.3	11367.4	10577.6	10621.6	11064.1	13462.8	11210.9
42.5°	15291.8	15142.7	14690.2	13956.8	13448.1	12560.6	11572.7	11526.3	11829.5	14482.5	12142.4
45°	18159.9	17842.0	16668.4	15262.4	14612.0	13905.4	12797.7	12648.6	12841.8	15707.4	13291.7
47.5°	20627.0	20297.0	18636.7	16621.9	15846.9	15181.8	14233.1	13964.1	14027.7	17079.2	14749.0
50°	21465.7	21304.4	19854.4	17805.3	17042.5	16788.2	15898.2	15570.5	15480.1	18666.1	16438.5
52.5°	21174.8	21162.5	20196.7	18573.1	18137.9	18450.8	17993.7	17614.7	17282.1	20338.5	18157.5
55°	20707.7	20768.9	20336.1	19245.6	19230.8	19969.4	20859.3	20543.9	19580.6	22155.3	19639.3
57.5°	19419.2	19680.8	20257.9	20517.0	21118.5	21874.0	23245.8	23431.6	22292.1	23546.5	20869.1
60°	15756.4	16331.0	18218.6	20700.4	23551.4	25434.1	26126.1	26285.0	24517.2	24703.1	22529.4
62.5°	11184.0	11770.8	14164.6	18362.8	23588.1	30111.7	30417.3	29793.8	26967.3	26417.0	25392.6
65°	5936.7	6389.2	8345.2	13255.0	20451.0	31197.4	37921.3	36063.1	31290.2	29788.9	29092.0
67.5°	3036.9	3173.8	3951.4	6486.9	14059.5	27710.6	44647.9	45956.1	38740.5	33133.9	28913.5
69°	2687.2	2767.9	3283.8	4689.7	9003.0	23470.7	44975.6	49352.3	42640.5	32855.2	26275.2
70°	2601.6	2672.5	3142.0	4244.7	7037.1	19683.3	43721.1	49054.0	43638.0	31793.9	24304.5
72.5°	2207.9	2269.1	2797.2	3750.8	5719.1	9770.7	35515.4	41567.0	39158.6	26485.5	17592.6
75°	1476.8	1677.3	2684.7	3516.1	5320.6	5550.4	23414.5	30038.3	27903.7	17864.0	9164.3
77.5°	354.5	381.5	758.0	2797.2	4865.8	4885.3	12042.2	18673.4	15230.6	6367.1	2166.4
80°	190.7	183.3	212.7	555.0	4530.8	4584.6	5420.8	9064.0	5438.0	1056.3	714.0
82.5°	134.5	127.2	136.9	232.2	1425.5	4176.2	3922.0	4102.9	2254.4	405.9	320.3
85°	48.9	46.4	75.8	210.4	447.4	2401.1	4029.6	3384.1	1826.5	185.8	234.7
87.5°	17.2	14.6	29.4	114.9	136.9	1022.0	2486.7	2557.6	718.8	112.4	110.1
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°	11254.9	11254.9	11254.9	11254.9	11254.9	11254.9	11254.9	11254.9	11254.9	11254.9	11254.9
2.5°	11154.6	11003.1	10724.4	10438.2	10174.1	9856.3	9697.3	9540.8	9474.9	9450.4	9335.4
5°	10831.9	10575.1	9983.4	9389.3	8841.6	8259.6	7875.7	7567.7	7386.7	7298.7	7159.3
7.5°	10418.6	9998.1	9100.8	8183.8	7330.4	6489.4	5865.8	5386.6	5056.5	4897.5	4753.4
10°	10017.7	9457.7	8181.4	6932.0	5772.9	4657.9	3797.3	3173.8	2775.1	2591.8	2474.5
12.5°	9658.2	8932.1	7293.8	5711.8	4257.0	2951.3	2075.9	1579.6	1332.6	1246.9	1205.4
15°	9338.0	8447.9	6455.1	4552.9	2882.8	1687.2	1134.5	965.9	926.7	926.7	921.8
17.5°	9034.7	7973.5	5645.8	3464.7	1809.5	1031.9	863.1	841.1	841.1	850.9	850.9
20°	8743.8	7521.2	4863.3	2486.7	1139.5	819.1	780.0	775.0	780.0	792.2	792.2
22.5°	8494.4	7110.4	4132.3	1706.7	846.0	738.4	718.8	711.5	714.0	721.3	726.2
25°	8308.5	6763.2	3442.8	1156.5	728.6	672.4	650.4	638.2	628.4	628.4	633.2
27.5°	8191.1	6469.8	2775.1	841.1	655.3	611.3	577.0	557.4	535.5	523.3	528.2
30°	8105.6	6191.0	2149.2	687.1	586.8	542.8	498.8	467.0	435.2	420.5	425.4
32.5°	8073.8	5966.1	1606.4	606.4	525.6	476.8	423.1	381.5	347.2	335.0	337.4
35°	8159.4	5787.6	1176.0	547.7	476.8	415.6	354.5	308.1	281.3	273.8	276.3
37.5°	8384.3	5692.2	880.2	498.8	432.7	364.3	295.9	251.9	234.7	234.7	237.2
40°	8809.8	5689.7	706.7	464.6	393.7	315.4	244.5	212.7	202.9	207.8	210.4
42.5°	9430.8	5819.3	616.2	432.7	359.5	269.0	202.9	181.0	178.5	183.3	185.8
45°	10279.3	6056.6	567.3	405.9	322.8	225.0	171.2	156.5	156.5	163.8	166.3
47.5°	11318.5	6403.8	525.6	379.0	286.0	188.3	146.7	136.9	139.5	146.7	149.1
50°	12570.4	6841.5	484.1	349.6	259.2	156.5	127.2	119.8	122.3	131.9	134.5
52.5°	13995.9	7430.7	449.9	322.8	225.0	129.6	107.6	102.7	107.6	117.4	119.8
55°	15218.4	7958.9	408.3	300.8	181.0	107.6	88.1	88.1	92.9	105.1	107.6
57.5°	16394.6	8511.6	371.7	259.2	141.8	85.5	73.3	75.8	83.1	95.4	97.8
60°	18120.7	9447.9	327.7	217.7	107.6	68.5	61.0	63.6	73.3	85.5	88.1
62.5°	21052.5	10873.5	283.6	181.0	83.1	53.7	48.9	53.7	66.0	80.8	83.1
65°	23698.2	11453.0	232.2	151.7	63.6	41.5	41.5	48.9	63.6	78.2	80.8
67.5°	22223.7	9641.1	181.0	119.8	48.9	31.8	34.2	46.4	61.0	78.2	80.8
69°	19653.9	7883.0	154.0	95.4	41.5	29.4	31.8	46.4	61.0	75.8	78.2
70°	17651.4	6655.6	136.9	80.8	36.7	29.4	31.8	44.0	61.0	75.8	78.2
72.5°	11822.2	3594.3	110.1	58.7	34.2	26.9	26.9	44.0	58.7	73.3	75.8
75°	5081.0	992.7	88.1	41.5	29.4	24.5	24.5	41.5	56.3	70.9	75.8
77.5°	929.1	251.9	70.9	36.7	29.4	24.5	22.0	39.2	53.7	68.5	70.9
80°	369.2	124.7	56.3	31.8	26.9	22.0	19.5	36.7	51.4	66.0	68.5
82.5°	222.5	70.9	46.4	29.4	26.9	19.5	17.2	31.8	48.9	63.6	66.0
85°	181.0	48.9	36.7	29.4	24.5	19.5	14.6	29.4	44.0	61.0	63.6
87.5°	88.1	34.2	34.2	26.9	24.5	19.5	14.6	26.9	41.5	58.7	61.0
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)