

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: P192808

Luminaire Tested: **GAN-AF-10-LED-U-SL2-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL2-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51774.7 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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

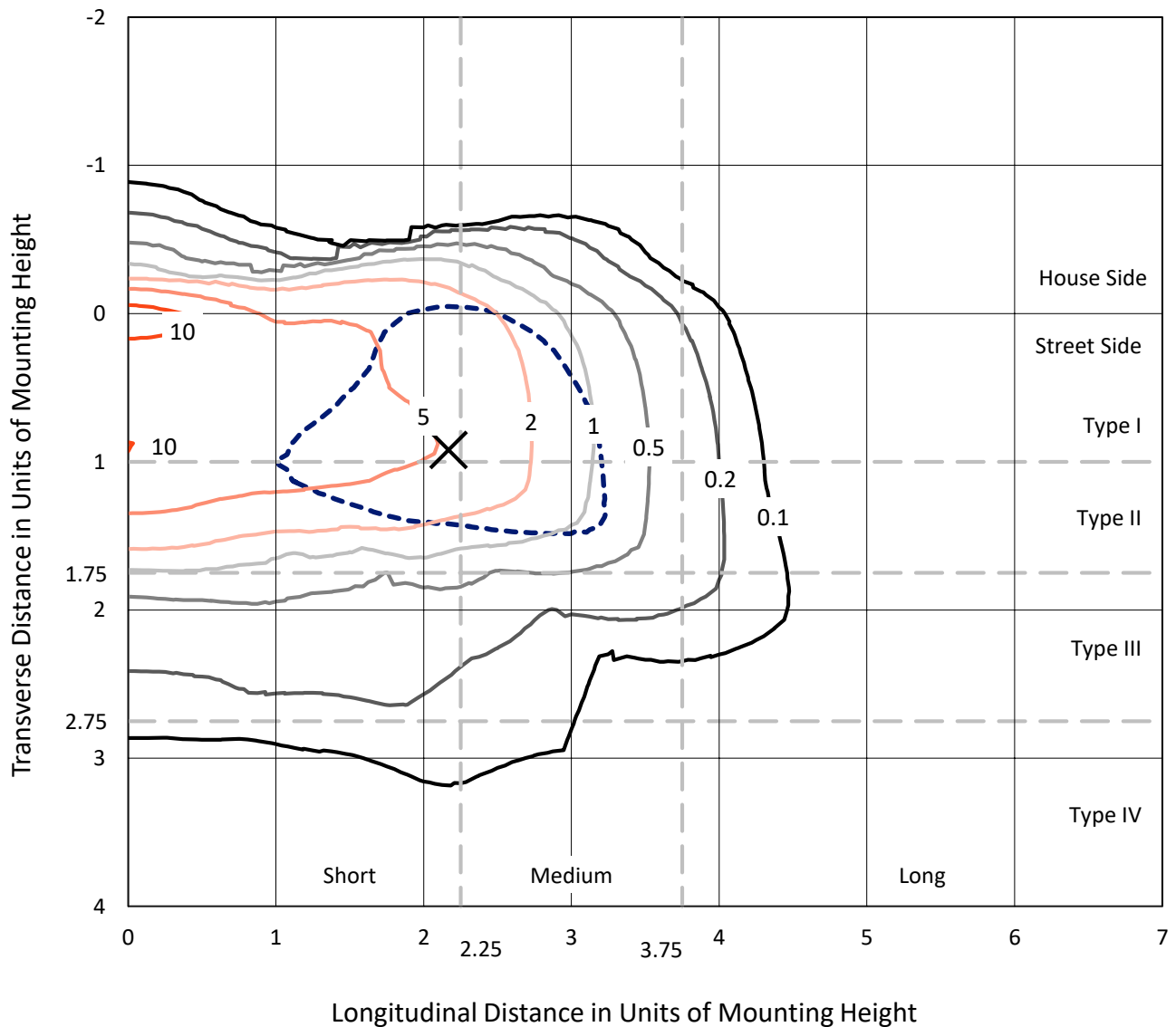


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

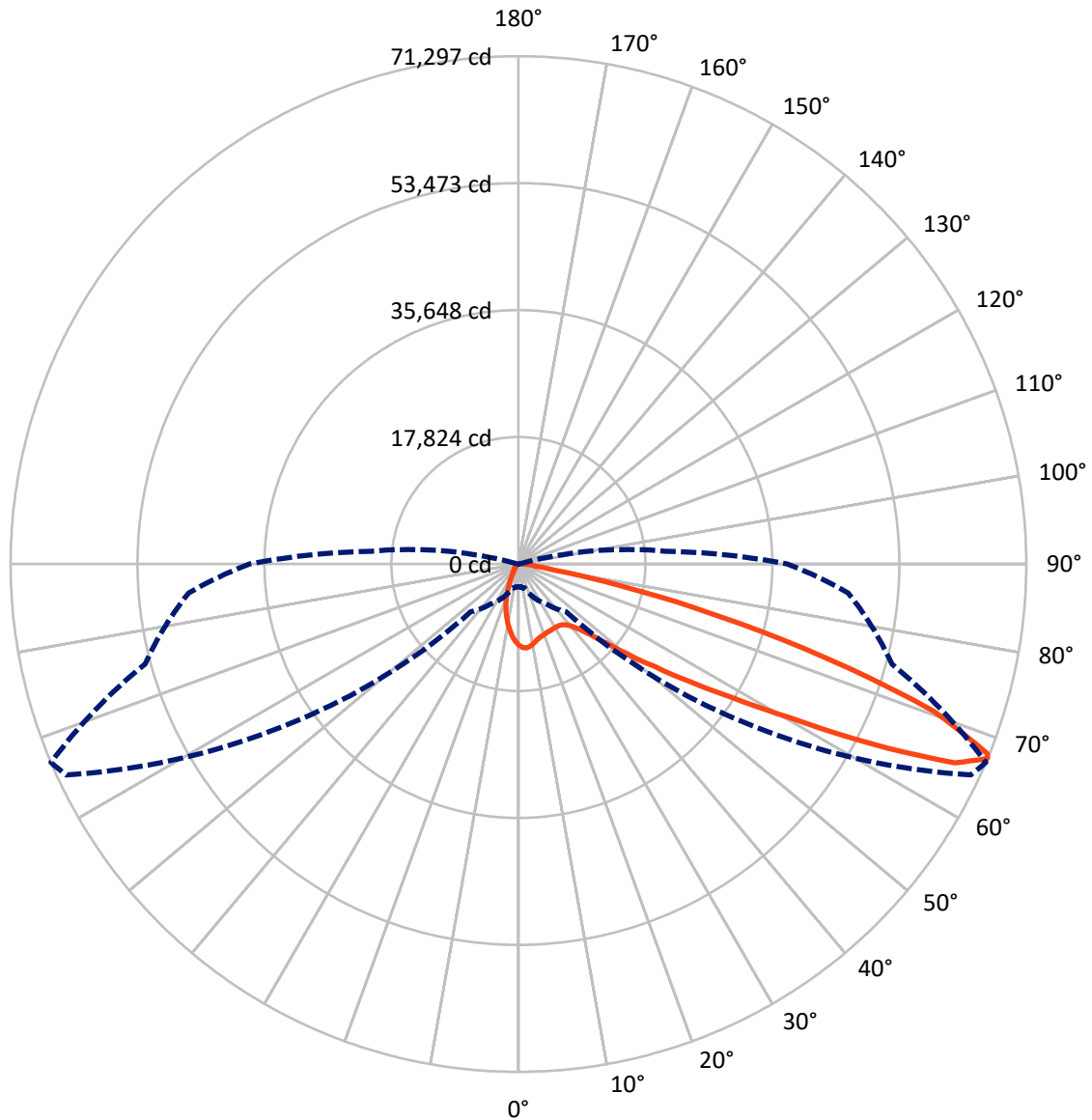


Based on 30 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5375.8	0.0	5375.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	46398.9	0.0	46398.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	51774.7	0.0	51774.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	929.1	1.8
10°-20°	1977.4	3.8
20°-30°	2875.0	5.6
30°-40°	4485.2	8.7
40°-50°	7945.2	15.3
50°-60°	12572.6	24.3
60°-70°	14400.1	27.8
70°-80°	5973.1	11.5
80°-90°	617.0	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°	51774.7	100.0
0°-180°	51774.7	100.0



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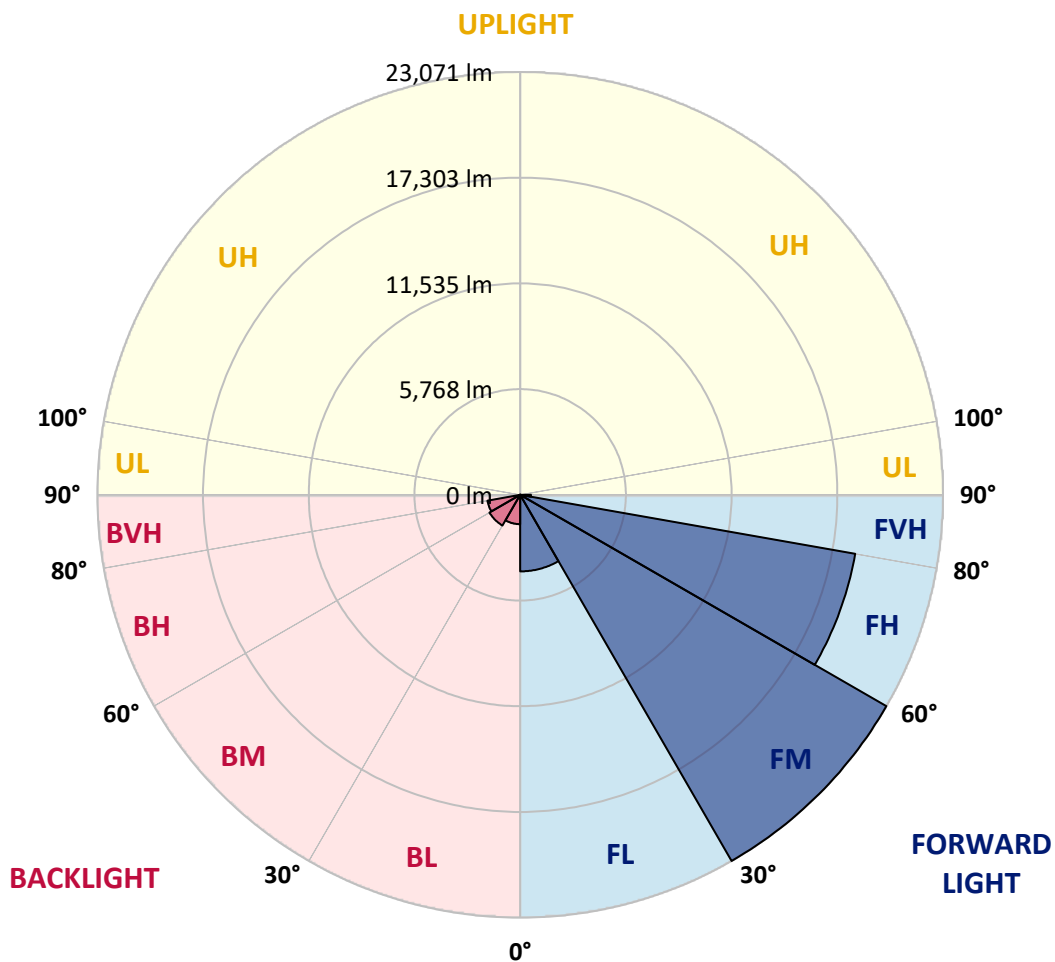
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4177.4	8.1			
FM (30°-60°)	23070.9	44.6			
FH (60°-80°)	18561.3	35.9			G5
FVH (80°-90°)	589.2	1.1			G4/750
BL (0°-30°)	1604.1	3.1	B3/2500		
BM (30°-60°)	1932.0	3.7	B2/2500		
BH (60°-80°)	1811.8	3.5	B3/2500		G3/2500
BVH (80°-90°)	27.8	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	11418.2	11418.2	11418.2	11418.2	11418.2	11418.2	11418.2	11418.2	11418.2	11418.2	11418.2
2.5°	11804.8	11829.0	11825.9	11844.0	11886.4	11889.4	11847.1	11765.5	11747.4	11641.7	11457.5
5°	10886.7	10956.2	10998.5	11170.5	11363.8	11596.4	11771.6	11835.0	11825.9	11750.4	11472.6
7.5°	9838.8	9908.2	9956.6	10158.9	10415.5	10814.3	11270.2	11644.8	11677.9	11759.5	11460.5
10°	9141.1	9153.3	9219.8	9413.0	9681.8	10089.4	10633.1	11288.3	11388.0	11687.0	11430.2
12.5°	8567.4	8576.6	8664.0	8872.5	9159.3	9570.0	10140.8	10898.8	11052.7	11596.4	11424.2
15°	8159.8	8193.1	8271.5	8488.9	8793.9	9201.6	9787.5	10612.0	10796.1	11563.2	11478.7
17.5°	8023.9	8060.0	8084.3	8241.3	8519.2	8917.7	9518.6	10424.7	10633.1	11581.3	11584.3
20°	8165.8	8193.1	8138.6	8177.8	8350.0	8706.4	9292.2	10264.6	10512.3	11602.5	11720.2
22.5°	8694.3	8706.4	8558.4	8386.3	8356.0	8552.4	9114.1	10137.8	10403.5	11659.8	11880.3
25°	9600.3	9579.1	9337.6	8966.1	8615.7	8525.2	9008.3	10059.3	10349.1	11720.2	12046.4
27.5°	10693.4	10723.7	10391.4	9851.0	9183.5	8706.4	8993.2	10026.0	10325.0	11762.6	12191.3
30°	12022.3	12064.5	11683.9	11004.5	10047.2	9153.3	9132.2	10020.0	10309.9	11735.3	12203.3
32.5°	13378.1	13429.5	13130.6	12429.9	11200.8	9902.2	9446.2	10086.5	10340.1	11641.7	12133.9
35°	14797.5	14869.9	14670.7	14069.8	12765.1	10983.4	9998.9	10288.8	10482.2	11632.7	12064.5
37.5°	16757.4	16823.8	16449.4	15812.2	14658.6	12432.9	10886.7	10669.2	10817.3	11777.6	12082.7
40°	19683.7	19674.7	18708.3	17732.9	16739.3	14275.0	12133.9	11357.8	11433.3	12215.5	12306.1
42.5°	22872.7	22857.6	21429.2	19946.4	19049.5	16543.0	13773.8	12547.7	12496.3	13021.8	12885.9
45°	25330.8	25327.8	24162.2	22492.2	21830.9	19146.1	15893.7	14202.6	14124.1	14332.4	13954.9
47.5°	26378.8	26396.9	25811.1	24636.4	24914.2	22667.4	18566.3	16600.5	16482.7	16398.0	15824.2
50°	25563.4	25599.7	25647.9	25418.5	27176.0	27399.5	22150.9	19979.5	19922.3	19544.8	18647.9
52.5°	22899.8	23084.1	23651.8	24379.7	27961.2	31941.4	27771.0	24177.3	23869.3	23467.6	22480.1
55°	18412.3	18614.6	19692.8	21459.4	26792.5	34925.2	35646.8	29588.9	29075.5	27876.6	26451.2
57.5°	12185.2	12499.4	14063.7	16310.4	23398.2	35405.3	43504.7	37099.4	35311.6	32029.1	30422.4
60°	6713.2	7015.2	8712.5	10747.9	16899.3	33031.6	48789.5	46877.9	43719.0	36670.5	35245.2
62.5°	4134.3	4297.2	5550.6	7444.1	10134.8	26070.8	49882.7	59165.8	55508.7	42646.9	41070.5
65°	3291.7	3361.2	3974.2	6085.0	7265.8	15507.1	46352.3	68533.5	67313.5	49882.7	46285.9
67°	3195.1	3222.3	3512.1	5224.4	6849.1	9506.6	38832.8	70058.5	71296.7	54261.5	46449.1
67.5°	3216.1	3246.4	3521.2	4985.8	6837.0	8736.6	36241.8	69457.6	71021.9	54608.8	45727.3
70°	3101.5	3195.1	4031.5	4982.9	6501.8	7259.8	21704.1	60180.5	61808.2	50740.3	38799.6
72.5°	1099.2	1105.2	1742.4	4031.5	7069.6	7338.4	10898.8	44117.7	45322.6	38814.8	27973.3
75°	652.3	555.7	579.8	1147.5	6755.5	7127.0	6287.5	28190.7	28640.6	22241.6	14166.3
77.5°	449.9	392.6	404.7	507.3	2572.9	7027.3	4994.9	14700.9	14220.7	7800.3	3016.8
80°	256.6	226.5	241.6	443.9	936.2	6556.2	4711.0	5961.3	5082.5	1322.7	833.5
82.5°	135.9	114.7	138.9	365.4	652.3	4086.0	4720.1	2880.9	2283.1	447.0	567.7
85°	48.3	39.3	66.4	250.6	434.9	1253.2	4375.9	2422.0	1902.5	217.4	431.8
87.5°	9.1	9.1	27.2	102.7	175.2	383.5	2588.1	1437.6	963.3	129.9	296.0
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°	11418.2	11418.2	11418.2	11418.2	11418.2	11418.2	11418.2	11418.2	11418.2	11418.2	11418.2
2.5°	11382.0	11252.2	11077.0	10862.5	10608.8	10385.4	10219.3	10047.2	10011.0	9950.6	9941.5
5°	11306.4	11083.0	10648.2	10149.8	9618.4	9138.2	8748.6	8401.4	8247.3	8114.4	8099.4
7.5°	11194.7	10859.5	10119.7	9316.4	8485.9	7730.9	7090.7	6637.7	6221.0	6021.8	5991.4
10°	11064.9	10584.7	9524.7	8410.4	7262.9	6196.8	5245.5	4448.3	3965.1	3678.2	3642.0
12.5°	10944.1	10315.9	8917.7	7471.2	5946.2	4520.8	3297.8	2536.7	2029.4	1824.0	1799.8
15°	10886.7	10098.5	8350.0	6510.9	4569.1	2878.0	1802.9	1395.2	1229.0	1180.8	1177.7
17.5°	10880.7	9914.3	7794.3	5517.4	3201.1	1673.0	1174.7	1072.1	1038.8	1026.8	1026.8
20°	10877.7	9739.2	7238.7	4487.6	2032.4	1114.3	978.4	954.3	930.2	915.0	915.0
22.5°	10910.8	9582.1	6659.0	3436.6	1280.4	902.9	860.6	836.5	806.4	785.1	782.2
25°	10944.1	9461.3	6066.9	2446.1	927.1	785.1	742.9	709.6	667.3	640.3	637.2
27.5°	10950.2	9310.3	5432.8	1636.8	776.1	685.5	631.2	579.8	531.5	504.3	501.3
30°	10859.5	9056.7	4729.2	1105.2	685.5	594.9	522.5	468.0	422.9	401.6	401.6
32.5°	10681.4	8742.6	3956.1	833.5	610.0	510.4	431.8	380.6	350.2	341.2	338.2
35°	10521.3	8404.3	3161.9	706.7	546.7	431.8	353.4	320.1	302.0	299.0	296.0
37.5°	10427.7	8132.6	2415.9	640.3	486.2	362.4	299.0	274.8	265.7	259.7	262.8
40°	10500.2	7906.1	1784.7	585.8	425.8	302.0	253.7	241.6	232.5	229.6	229.6
42.5°	10817.3	7866.8	1325.8	537.5	368.4	250.6	220.4	211.4	205.4	202.3	205.4
45°	11650.8	8108.4	1029.8	492.2	311.1	211.4	187.3	184.2	181.2	181.2	181.2
47.5°	12904.1	8606.7	857.6	440.9	259.7	181.2	163.2	160.1	157.0	160.1	160.1
50°	15027.0	9518.6	767.0	389.6	214.3	154.0	138.9	138.9	138.9	138.9	141.9
52.5°	18255.2	11312.4	706.7	338.2	175.2	129.9	117.8	117.8	120.8	120.8	123.8
55°	21852.0	13692.3	652.3	287.0	147.9	108.7	96.5	99.7	102.7	105.7	105.7
57.5°	25753.7	16328.6	607.1	235.6	126.8	87.6	81.5	84.5	87.6	93.6	93.6
60°	30461.7	19182.4	540.7	184.2	105.7	69.5	63.4	69.5	78.5	84.5	87.6
62.5°	35631.7	21942.5	456.0	145.0	87.6	54.4	51.4	63.4	75.5	81.5	84.5
65°	39165.1	22809.3	350.2	117.8	66.4	39.3	42.3	57.4	72.4	81.5	81.5
67°	37733.6	20680.3	287.0	99.7	54.4	30.1	39.3	57.4	72.4	78.5	81.5
67.5°	36740.1	19846.7	274.8	96.5	51.4	30.1	39.3	57.4	72.4	81.5	81.5
70°	29894.0	14909.2	229.6	72.4	42.3	27.2	33.3	54.4	69.5	78.5	78.5
72.5°	20770.8	9192.5	205.4	51.4	36.3	24.1	30.1	51.4	66.4	75.5	78.5
75°	9875.1	3327.9	175.2	39.3	33.3	21.1	27.2	51.4	66.4	75.5	75.5
77.5°	2014.3	773.1	141.9	33.3	27.2	21.1	24.1	48.3	63.4	72.4	72.4
80°	661.3	299.0	105.7	30.1	27.2	21.1	24.1	45.4	63.4	69.5	72.4
82.5°	477.1	151.0	69.5	30.1	27.2	21.1	21.1	45.4	60.4	69.5	69.5
85°	365.4	105.7	45.4	30.1	27.2	21.1	21.1	42.3	57.4	66.4	66.4
87.5°	241.6	42.3	36.3	30.1	27.2	21.1	21.1	42.3	54.4	63.4	66.4
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)