

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: P653629

Luminaire Tested: **GLAN-SA9D-840-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653629  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9D-840-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42470.5 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

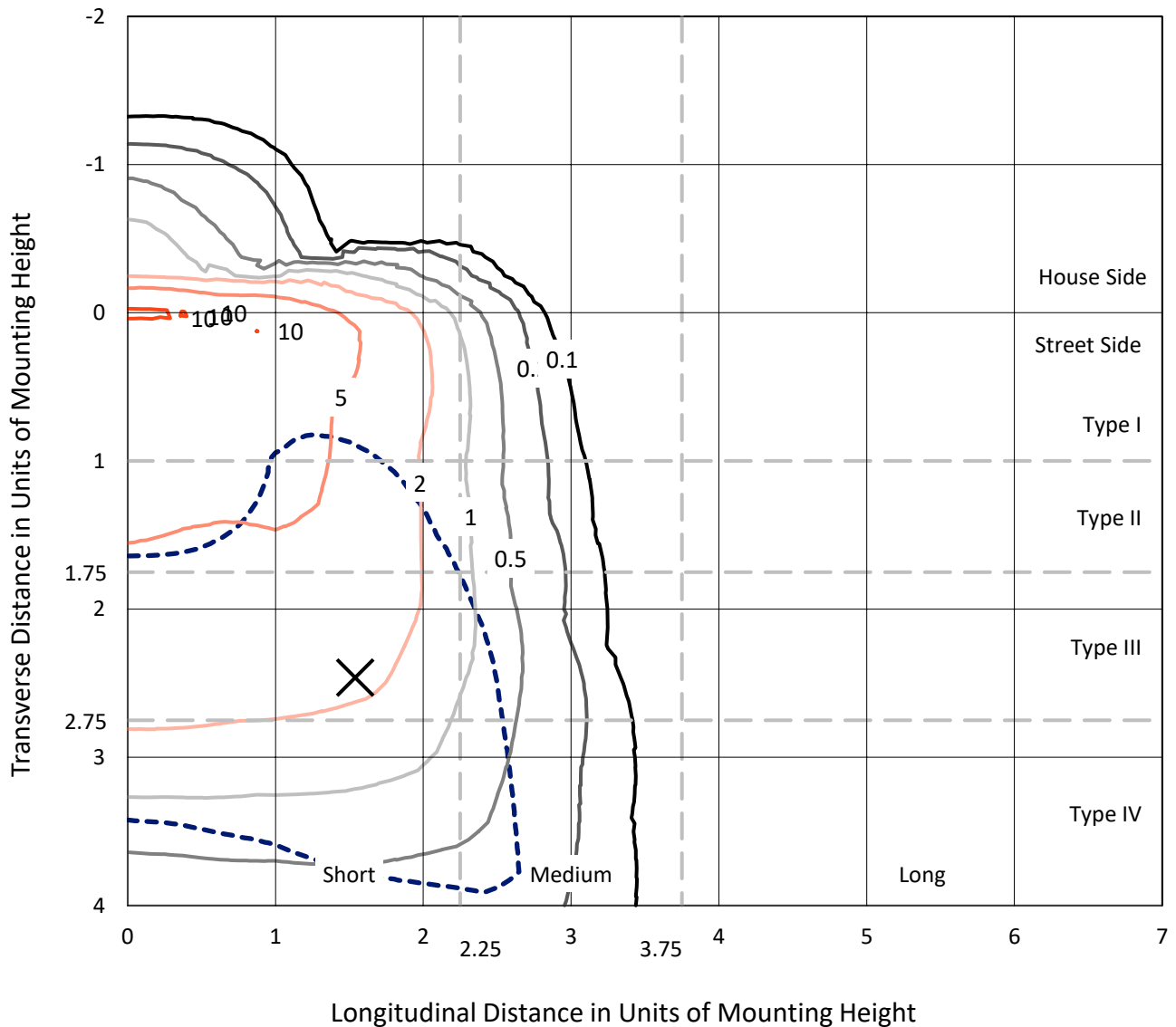
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

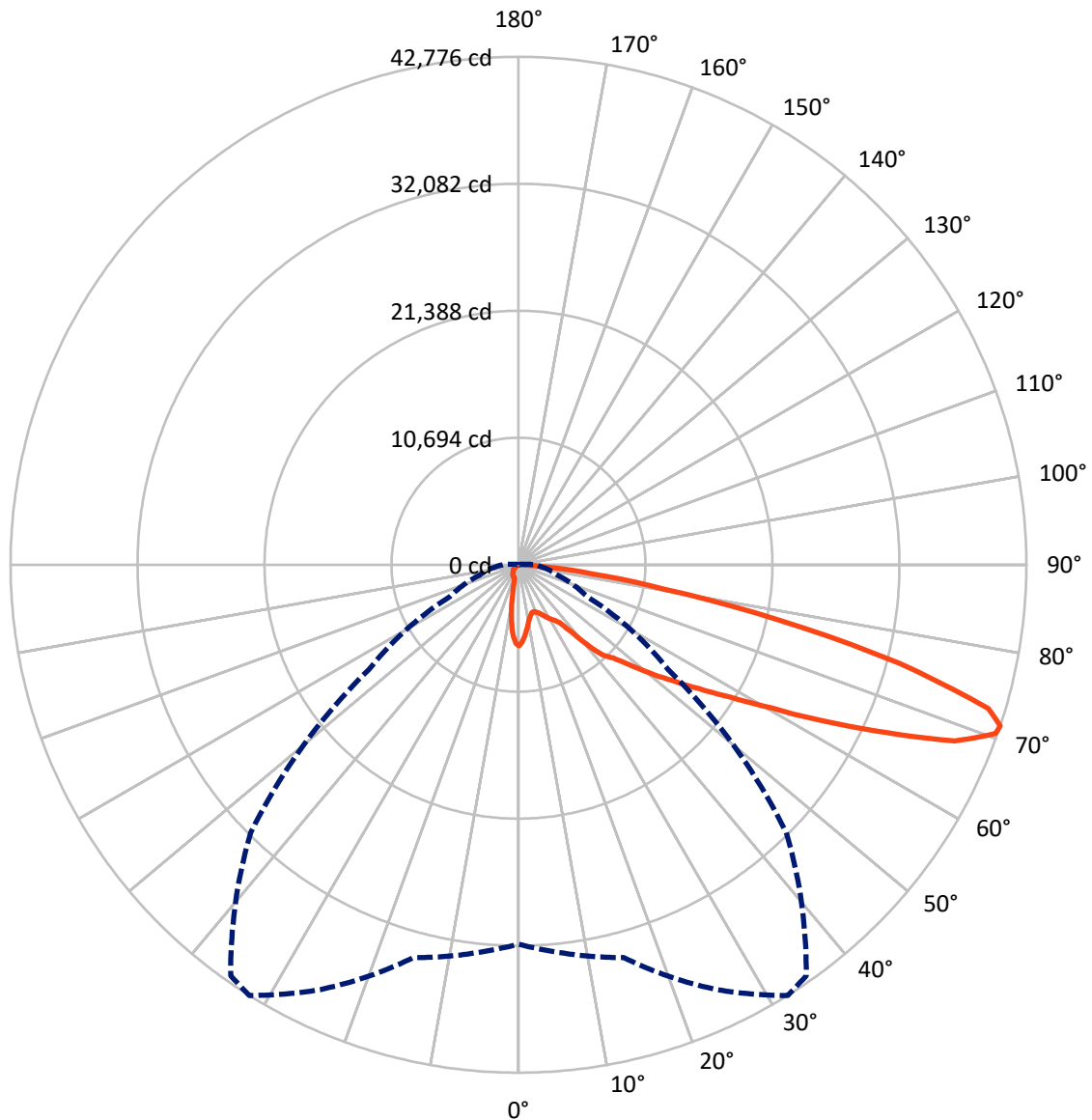
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3557.4	0.0	3557.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	38913.1	0.0	38913.1
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	42470.5	0.0	42470.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.4	1.3
10°-20°	1205.3	2.8
20°-30°	1875.1	4.4
30°-40°	3123.9	7.4
40°-50°	5811.0	13.7
50°-60°	9329.8	22.0
60°-70°	12549.0	29.5
70°-80°	7445.5	17.5
80°-90°	575.5	1.4
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°	42470.5	100.0
0°-180°	42470.5	100.0

**Coefficient of Utilization**



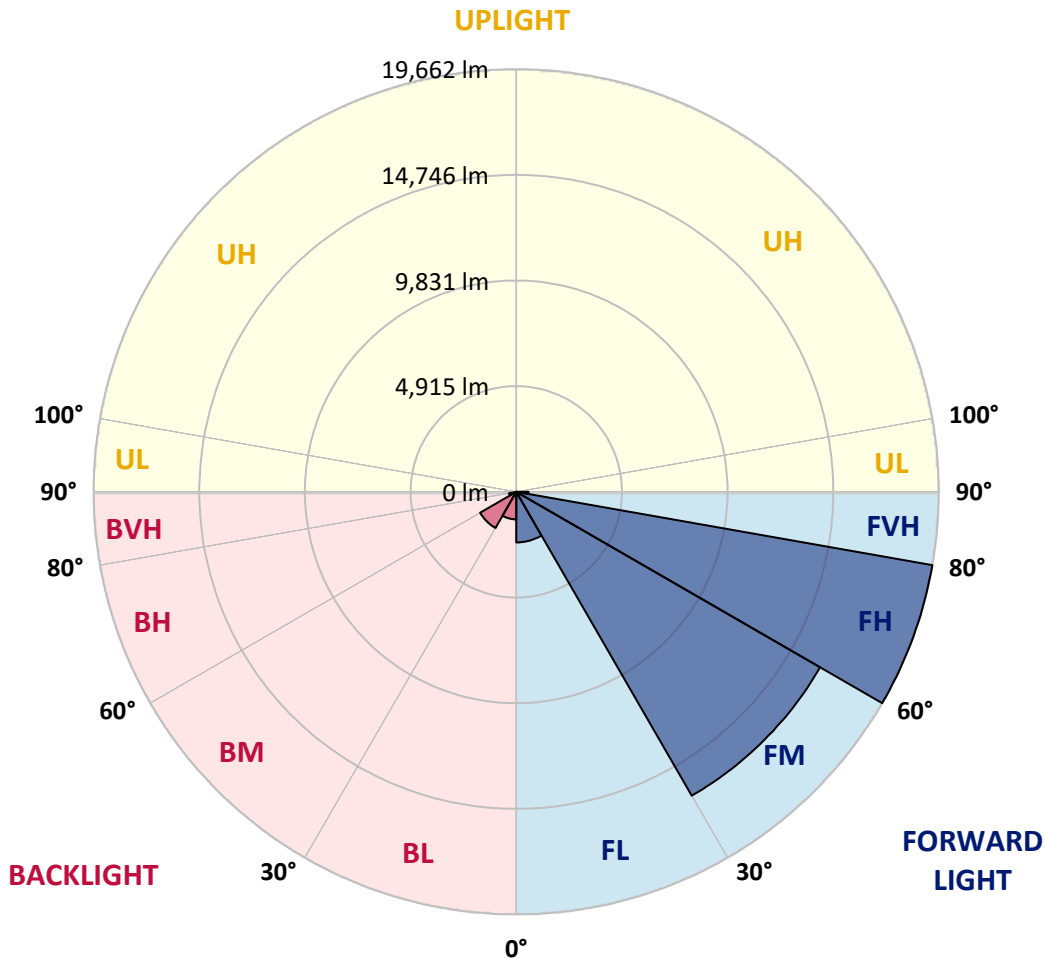
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2354.0	5.5			
FM (30°-60°)	16324.1	38.4			
FH (60°-80°)	19661.8	46.3			G5
FVH (80°-90°)	573.3	1.3			G4/750
BL (0°-30°)	1281.8	3.0	B3/2500		
BM (30°-60°)	1940.6	4.6	B2/2500		
BH (60°-80°)	332.7	0.8	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	6829.9	6829.9	6829.9	6829.9	6829.9	6829.9	6829.9	6829.9	6829.9	6829.9	6829.9
2.5°	6334.4	6399.6	6389.8	6412.6	6468.0	6490.8	6552.8	6621.3	6715.8	6781.0	6823.4
5°	5672.5	5721.5	5728.0	5842.1	5897.5	5959.5	6142.1	6340.9	6562.6	6738.6	6856.0
7.5°	4965.2	4991.3	5043.4	5193.3	5333.5	5395.4	5672.5	6018.1	6367.0	6696.3	6908.1
10°	4381.6	4411.0	4505.5	4665.2	4795.6	4877.1	5261.8	5695.4	6184.4	6673.4	6983.2
12.5°	4049.1	4065.3	4101.2	4244.7	4411.0	4498.9	4913.0	5408.6	6037.7	6683.2	7110.3
15°	4026.2	4019.7	3977.3	4036.0	4186.0	4277.2	4681.5	5212.9	5907.3	6715.8	7260.3
17.5°	4146.9	4130.6	4029.5	4029.5	4153.4	4228.4	4583.7	5108.6	5842.1	6790.8	7472.2
20°	4332.7	4306.6	4140.3	4127.3	4247.9	4326.2	4642.4	5115.1	5855.1	6931.0	7755.8
22.5°	4567.4	4538.0	4287.0	4293.6	4424.0	4502.2	4811.9	5232.4	5936.6	7103.8	8059.0
25°	4873.8	4841.2	4544.6	4531.6	4668.5	4736.9	5062.9	5441.1	6050.7	7319.0	8456.7
27.5°	5281.4	5212.9	4857.5	4838.0	4984.7	5072.7	5366.2	5721.5	6252.9	7615.6	8991.4
30°	5617.1	5542.2	5203.1	5151.0	5307.5	5375.9	5679.1	6099.7	6650.6	8134.0	9731.4
32.5°	6057.3	5946.5	5548.7	5411.8	5578.0	5666.1	6132.2	6803.9	7240.7	8681.6	10611.7
35°	7048.3	6979.9	6494.1	6014.9	6005.1	6115.9	6800.6	7514.5	7847.0	9535.8	11811.3
37.5°	8466.5	8417.6	7902.5	7260.3	7074.4	7022.3	7612.3	8297.0	8815.4	10709.5	13206.6
40°	10112.9	9998.7	9526.0	8981.6	8740.3	8587.1	8570.8	9460.8	10080.2	12303.7	14660.7
42.5°	11293.0	11084.4	10510.6	10471.5	10419.3	10259.5	9796.6	11162.6	11713.5	14018.5	16215.7
45°	12531.8	12215.6	11361.5	11214.7	11195.2	11185.4	11648.4	13177.4	13493.6	15876.7	17813.2
47.5°	13493.6	13242.6	12541.7	12476.4	12557.9	12779.6	14096.7	15316.0	15250.8	17532.8	19153.1
50°	14774.8	14585.7	13806.5	13930.4	14351.0	14712.9	16858.0	17647.0	16695.0	18836.9	20127.9
52.5°	16287.5	15938.6	15215.0	15550.7	16196.2	16799.3	19788.8	19687.8	17708.9	19818.2	20854.9
55°	17598.0	17350.3	17102.5	17451.3	18416.3	19169.4	22436.0	21216.7	18445.7	20607.1	21174.4
57.5°	19814.9	19756.3	19501.9	19857.3	21027.7	21810.1	24806.1	22403.4	18918.4	21017.9	20799.4
60°	23094.6	23000.0	22527.4	22980.5	24506.2	25735.3	26990.4	23469.5	19025.9	20858.1	19720.4
62.5°	27039.3	26716.6	26312.3	26980.6	29073.6	29614.8	29047.6	24102.0	18625.0	19586.7	17118.8
65°	30723.2	30390.7	30400.5	31808.8	34087.7	34456.0	31447.0	24007.4	17451.3	16401.6	12626.4
67.5°	33543.2	33487.8	33885.6	36633.8	39613.5	39359.2	33592.1	22592.5	13972.8	10631.2	6709.3
70°	33686.7	33794.2	34935.3	39574.4	42599.8	42195.6	33409.6	18364.2	8711.0	4890.2	2643.9
71°	31952.3	32676.0	34253.9	39483.1	42775.9	42251.0	31870.8	15381.1	6389.8	3410.1	1907.1
72.5°	27228.4	27609.9	31019.9	37158.7	41383.8	40262.3	27968.5	10781.2	4091.5	2086.4	1095.4
75°	14996.5	15935.4	20773.4	29151.8	33099.8	32115.3	18227.2	5121.6	2040.9	1141.1	453.1
77.5°	7139.7	6957.1	10135.6	17337.2	22442.6	22390.4	9183.7	2275.6	1189.9	772.6	228.2
80°	2040.9	2295.1	3879.5	8241.5	12460.1	12597.1	3527.4	1098.7	824.8	603.1	117.4
82.5°	616.2	629.2	1424.7	3644.8	6197.5	5842.1	1323.6	560.8	593.3	479.2	68.5
85°	107.6	133.6	420.6	1284.5	2363.5	1793.1	332.5	267.4	391.2	316.2	39.1
87.5°	6.6	9.8	140.2	146.7	208.7	120.6	58.7	39.1	84.8	84.8	22.8
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°	6829.9	6829.9	6829.9	6829.9	6829.9	6829.9	6829.9	6829.9	6829.9	6829.9	6829.9
2.5°	6852.7	6872.3	6859.3	6829.9	6781.0	6722.4	6644.1	6578.9	6523.5	6494.1	6530.0
5°	6895.1	6921.2	6856.0	6709.3	6487.6	6246.4	5972.5	5760.6	5594.3	5542.2	5522.6
7.5°	6960.3	6976.6	6800.6	6474.6	6005.1	5434.6	4935.8	4515.2	4189.3	4091.5	3948.0
10°	7045.1	7035.3	6702.8	6096.4	5271.6	4414.2	3641.5	3067.8	2634.2	2477.7	2464.6
12.5°	7175.5	7123.4	6578.9	5581.3	4397.8	3276.4	2321.2	1815.9	1542.1	1450.7	1431.2
15°	7338.5	7214.6	6383.3	4978.2	3367.7	2115.8	1431.2	1278.0	1242.1	1235.6	1229.0
17.5°	7530.8	7335.2	6125.8	4238.1	2366.8	1372.5	1196.5	1193.2	1196.5	1189.9	1186.7
20°	7791.6	7462.4	5819.3	3361.1	1564.8	1157.3	1141.1	1141.1	1144.3	1141.1	1141.1
22.5°	8068.7	7612.3	5441.1	2565.7	1180.2	1098.7	1095.4	1101.9	1108.4	1105.2	1105.2
25°	8411.1	7807.9	4942.3	1757.2	1056.3	1049.7	1053.0	1066.1	1079.1	1082.4	1079.1
27.5°	8906.6	8049.2	4407.7	1209.5	968.2	974.8	1007.3	1040.0	1059.6	1062.8	1062.8
30°	9464.1	8316.6	3710.0	981.3	896.5	896.5	935.6	997.6	1040.0	1046.5	1049.7
32.5°	10181.3	8626.2	2937.4	883.5	828.0	821.6	857.4	932.4	1010.6	1033.4	1033.4
35°	11068.1	8991.4	2184.2	821.6	779.2	762.9	782.5	844.4	945.5	1010.6	1017.2
37.5°	12108.0	9337.0	1597.5	766.2	733.5	710.7	723.8	772.6	854.1	951.9	978.0
40°	13069.7	9643.4	1193.2	720.5	687.9	671.6	681.4	704.2	772.6	864.0	880.2
42.5°	14119.5	9881.4	948.7	671.6	642.3	635.7	635.7	645.5	691.1	743.3	746.6
45°	15166.0	9966.1	795.5	612.9	593.3	599.9	596.6	590.0	609.6	603.1	603.1
47.5°	15912.6	9865.1	658.5	557.5	557.5	567.3	550.9	528.1	518.4	479.2	482.5
50°	16424.4	9496.7	541.2	492.2	518.4	531.4	498.8	463.0	427.1	384.7	374.9
52.5°	16636.3	8841.4	443.4	407.5	459.7	476.0	436.8	394.5	339.1	303.2	293.4
55°	16499.4	8032.9	368.4	332.5	388.0	407.5	368.4	319.5	257.5	218.4	211.9
57.5°	15896.2	7067.9	312.9	264.1	309.7	322.8	296.7	244.5	182.6	143.5	143.5
60°	14853.1	6070.3	254.3	208.7	231.4	251.0	225.0	176.0	123.9	88.1	81.5
62.5°	12737.2	4929.3	205.4	163.0	163.0	179.3	156.5	127.2	78.2	45.7	42.4
65°	9196.8	3380.7	163.0	120.6	117.4	117.4	97.8	84.8	45.7	19.6	13.0
67.5°	4997.7	1907.1	130.4	91.2	81.5	78.2	62.0	48.9	19.6	3.3	0.0
70°	1965.8	733.5	101.1	62.0	52.1	48.9	32.6	22.8	13.0	0.0	0.0
71°	1333.4	505.4	88.1	52.1	42.4	35.8	26.1	19.6	9.8	0.0	0.0
72.5°	762.9	312.9	68.5	39.1	32.6	26.1	19.6	13.0	9.8	0.0	0.0
75°	332.5	159.7	42.4	29.4	22.8	16.3	13.0	9.8	3.3	0.0	0.0
77.5°	169.5	88.1	29.4	22.8	13.0	9.8	6.6	3.3	0.0	0.0	0.0
80°	94.5	45.7	19.6	13.0	9.8	6.6	3.3	3.3	0.0	0.0	0.0
82.5°	52.1	26.1	9.8	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.6	16.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	6.6	0.0	0.0	0.0	0.0	3.3	3.3	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)