

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: P649603

Luminaire Tested: **GLAN-SA8D-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8D-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39160.2 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

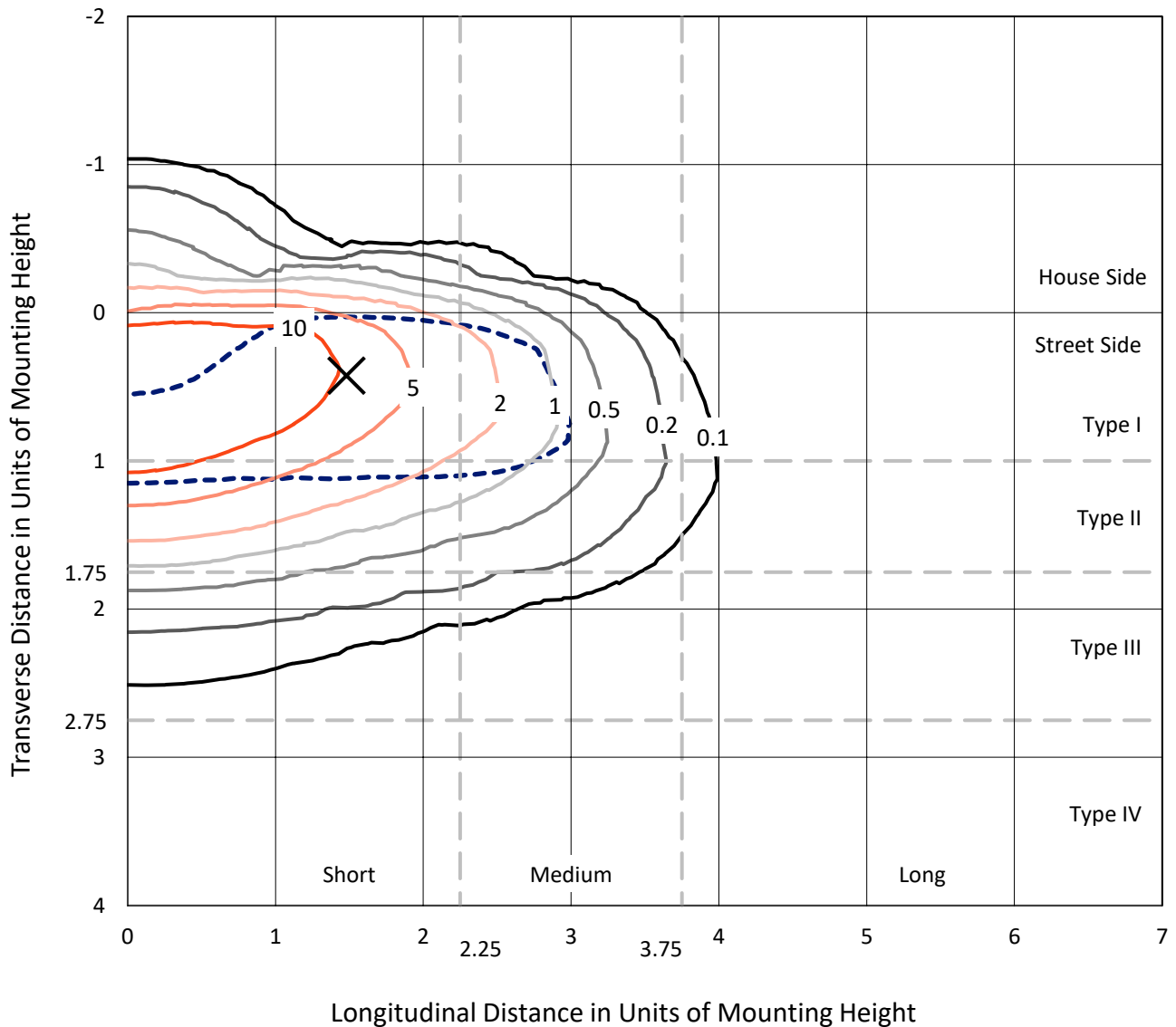
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P649603
 CATALOG NUMBER: GLAN-SA8D-835-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

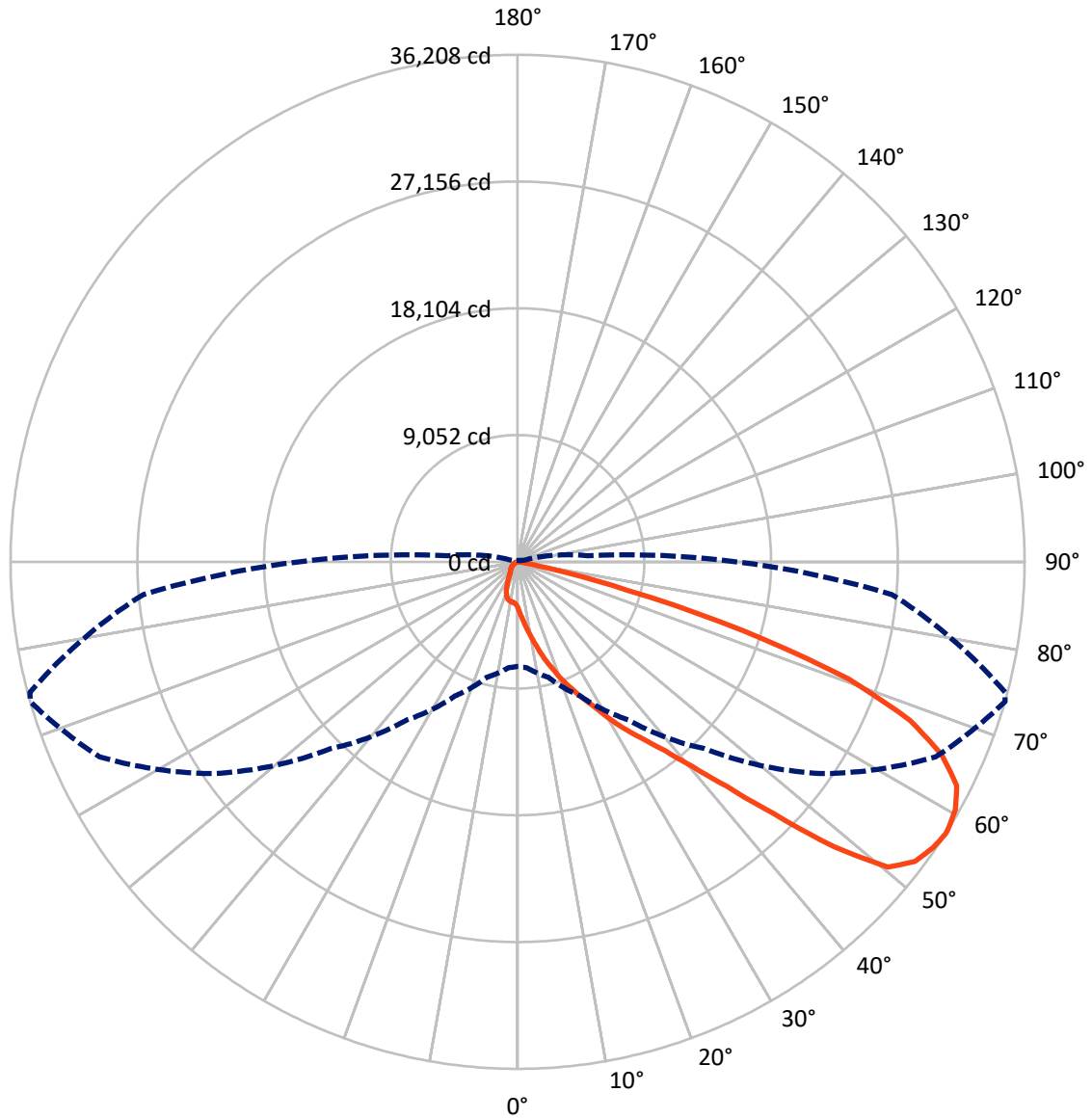
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Short - N/A

REPORT NUMBER: P649603
CATALOG NUMBER: GLAN-SA8D-835-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P649603
 CATALOG NUMBER: GLAN-SA8D-835-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2258.6	0.0	2258.6
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	36901.5	0.0	36901.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	39160.2	0.0	39160.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.9	1.0
10°-20°	1560.3	4.0
20°-30°	3338.7	8.5
30°-40°	6136.5	15.7
40°-50°	9407.3	24.0
50°-60°	9951.6	25.4
60°-70°	6498.7	16.6
70°-80°	1775.7	4.5
80°-90°	95.6	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°	39160.2	100.0
0°-180°	39160.2	100.0

Coefficient of Utilization

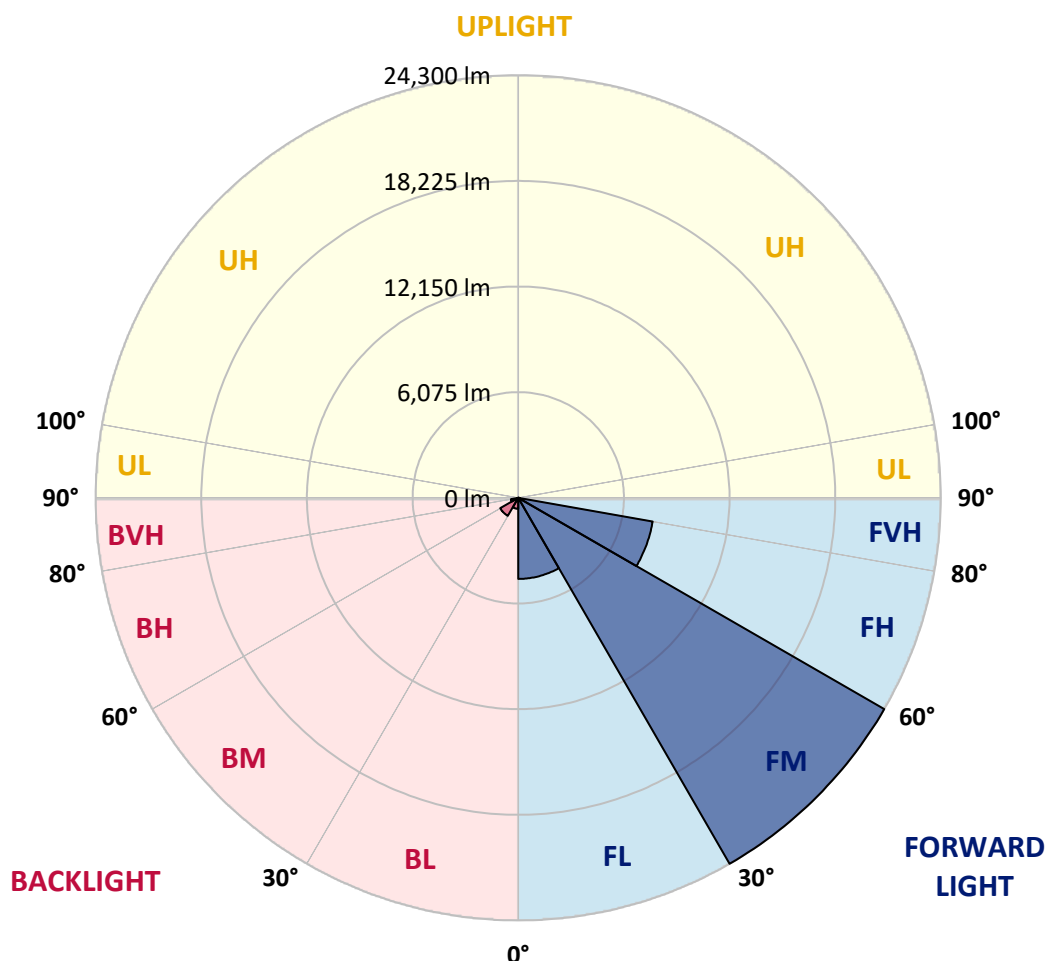


REPORT NUMBER: P649603
 CATALOG NUMBER: GLAN-SA8D-835-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4663.9	11.9			
FM (30°-60°)	24299.6	62.1			
FH (60°-80°)	7850.3	20.0			G4/12000
FVH (80°-90°)	87.7	0.2			G1/100
BL (0°-30°)	630.9	1.6	B2/1000		
BM (30°-60°)	1195.8	3.1	B2/2500		
BH (60°-80°)	424.0	1.1	B1/500		G1/500
BVH (80°-90°)	7.9	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 II Short





REPORT NUMBER: P649603

CATALOG NUMBER: GLAN-SA8D-835-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3279.6	3279.6	3279.6	3279.6	3279.6	3279.6	3279.6	3279.6	3279.6	3279.6	3279.6
2.5°	4799.1	4755.9	4669.3	4639.6	4512.5	4315.1	4142.1	3909.6	3725.7	3706.8	3485.1
5°	6426.7	6329.4	6288.8	6094.2	5788.6	5502.1	5010.0	4636.8	4207.0	4174.6	3728.4
7.5°	7994.9	7859.8	7819.2	7635.3	7278.5	6826.9	6188.8	5510.2	4828.8	4766.7	4055.5
10°	9130.5	9149.4	9076.4	8954.7	8665.5	8205.8	7419.0	6491.6	5521.0	5442.6	4423.3
12.5°	9944.3	9941.6	9955.1	9952.4	9798.3	9449.5	8622.2	7554.2	6283.4	6129.3	4845.0
15°	10474.2	10482.3	10522.9	10663.4	10679.7	10463.4	9774.0	8570.8	7167.6	6975.6	5302.0
17.5°	11009.5	11066.3	11131.2	11263.7	11382.7	11296.2	10809.5	9630.7	7967.9	7824.6	5791.4
20°	11893.7	11972.1	11934.3	12015.4	12077.5	12085.6	11709.8	10609.4	8938.5	8697.9	6351.1
22.5°	13307.7	13305.0	13207.6	13061.7	12940.0	12934.6	12593.9	11615.2	9819.9	9587.4	6913.4
25°	15094.9	15103.0	14913.7	14497.3	14194.5	13824.1	13432.1	12496.6	10763.5	10476.9	7505.5
27.5°	17144.3	17092.9	16806.3	16233.2	15632.9	15000.2	14435.2	13521.3	11763.9	11526.0	8184.2
30°	18985.6	18966.6	18631.3	17931.1	17141.6	16506.2	15687.0	14805.6	13059.0	12767.0	8943.9
32.5°	20699.7	20726.7	20261.7	19537.1	18774.6	18042.0	17176.7	16033.1	14329.8	13916.0	9771.2
35°	22038.0	22065.1	21583.8	20980.9	20196.8	19588.5	18763.8	17341.6	15584.3	15235.5	10723.0
37.5°	22751.8	22786.9	22508.5	22054.3	21564.9	21259.4	20491.5	19026.1	17109.2	16898.2	11847.7
40°	22887.0	22927.6	22805.9	22684.2	22657.2	22876.2	22651.8	21010.6	19223.4	18893.6	13524.0
42.5°	22481.4	22535.5	22589.6	22860.0	23411.5	24214.5	24995.9	23703.5	21946.1	21502.7	15573.4
45°	21416.1	21410.7	21624.3	22324.7	23560.2	25274.4	27445.5	27075.0	25655.6	25128.3	18469.1
47.5°	19593.9	19566.9	20029.1	21026.8	22951.9	25469.0	29443.5	31168.5	30389.8	29903.2	21581.1
50°	16817.1	16949.6	17676.9	19069.3	21440.5	24879.7	30060.0	33853.3	34275.0	33758.7	24095.6
52.5°	13564.5	13559.1	14700.1	16590.0	19201.8	23581.8	29630.1	34340.0	35537.7	35143.0	25333.9
55°	10038.9	10109.2	11296.2	13202.2	16295.3	21213.4	28226.8	33839.8	36018.9	35740.5	26150.4
57°	7467.7	7592.0	8543.8	10560.7	13764.7	18869.3	26358.6	32944.9	36208.3	36056.8	26829.0
57.5°	6970.2	6975.6	7903.0	9736.1	13023.8	17968.9	25823.3	32571.7	36202.9	36119.0	26939.9
60°	4290.8	4426.0	5066.8	6580.9	9533.3	14024.2	22235.4	30427.7	35921.6	36043.3	27413.1
62.5°	2568.6	2625.3	3041.7	3966.4	6145.5	10236.3	18196.1	27683.4	35189.0	35559.3	27380.6
65°	1652.0	1665.5	1854.8	2400.9	3842.0	6918.8	14021.5	24057.7	33293.6	33975.0	26309.9
67.5°	1276.1	1297.8	1373.5	1576.3	2227.9	4309.7	9917.2	20188.7	30227.6	31106.3	23714.3
70°	1132.8	1143.6	1170.7	1235.6	1473.5	2433.3	6169.9	15770.8	25066.2	25314.9	18558.4
72.5°	924.6	954.4	1038.3	1059.9	1168.0	1519.5	3433.7	10585.1	16841.5	16903.6	10382.3
75°	716.5	721.9	846.3	908.4	984.2	1046.3	1533.0	5337.2	8089.6	7657.0	4001.5
77.5°	535.3	559.7	616.5	694.8	803.0	748.9	686.8	2011.6	2511.8	2465.8	1162.6
80°	343.3	356.9	429.9	521.8	624.5	489.4	386.6	589.4	551.5	567.8	278.5
82.5°	173.0	175.7	275.8	424.5	397.5	246.0	243.4	240.6	205.5	202.8	129.7
85°	18.9	40.6	178.4	243.4	178.4	81.1	113.5	110.9	108.1	110.9	75.7
87.5°	2.7	2.7	29.8	35.2	24.4	27.0	32.4	35.2	43.2	40.6	32.4
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: P649603

CATALOG NUMBER: GLAN-SA8D-835-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3279.6	3279.6	3279.6	3279.6	3279.6	3279.6	3279.6	3279.6	3279.6	3279.6	3279.6
2.5°	3376.9	3268.8	3068.7	2876.7	2733.5	2641.5	2522.6	2479.3	2417.1	2409.0	2379.3
5°	3523.0	3317.5	2968.7	2692.9	2471.2	2303.6	2157.6	2035.9	1938.6	1916.9	1927.7
7.5°	3731.2	3425.6	2938.9	2563.2	2254.9	1968.3	1735.8	1592.5	1489.7	1451.9	1457.3
10°	3966.4	3568.9	2933.5	2425.3	1954.8	1603.3	1349.2	1222.1	1162.6	1141.0	1116.6
12.5°	4244.9	3733.8	2920.0	2211.7	1625.0	1278.9	1097.7	1022.0	965.2	949.0	949.0
15°	4558.5	3909.6	2855.1	1946.7	1319.4	1057.1	935.5	876.0	857.1	840.9	840.9
17.5°	4885.6	4082.6	2719.9	1619.6	1095.0	905.8	830.1	794.9	767.9	748.9	748.9
20°	5258.7	4252.9	2503.6	1330.2	924.6	808.4	748.9	708.4	686.8	670.6	665.1
22.5°	5612.9	4390.8	2227.9	1092.3	805.7	727.3	673.2	630.0	608.3	600.2	600.2
25°	5980.6	4474.7	1895.3	903.0	735.4	659.7	600.2	565.1	546.1	540.7	538.1
27.5°	6337.5	4523.3	1603.3	789.5	670.6	597.5	540.7	513.7	494.8	489.4	492.1
30°	6770.1	4531.5	1319.4	708.4	613.7	538.1	486.6	462.4	451.6	446.1	443.4
32.5°	7208.1	4520.7	1108.5	659.7	559.7	486.6	443.4	424.5	416.4	408.3	408.3
35°	7700.2	4463.9	943.6	611.1	508.3	443.4	405.6	389.3	378.5	370.4	367.7
37.5°	8311.2	4434.1	849.0	556.9	462.4	402.9	367.7	351.5	343.3	332.5	329.9
40°	9273.8	4566.6	819.3	508.3	416.4	365.0	332.5	313.7	302.8	292.0	289.3
42.5°	10474.2	4799.1	770.6	459.6	375.8	329.9	297.4	275.8	256.8	243.4	238.0
45°	12028.8	5104.6	694.8	408.3	340.7	292.0	262.2	235.2	210.9	200.1	197.4
47.5°	13659.2	5399.3	627.3	367.7	302.8	259.6	227.1	197.4	175.7	167.6	164.9
50°	14659.6	5458.8	584.0	321.7	265.0	224.4	192.0	164.9	151.4	143.3	143.3
52.5°	15116.5	5364.2	524.5	281.2	229.8	197.4	164.9	143.3	135.2	129.7	127.1
55°	15435.5	5218.1	446.1	243.4	197.4	167.6	146.0	129.7	118.9	113.5	110.9
57°	15622.1	5020.8	386.6	213.6	170.3	146.0	129.7	116.3	105.5	94.7	94.7
57.5°	15630.2	4945.1	370.4	210.9	162.2	140.6	127.1	113.5	100.1	89.2	86.5
60°	15389.6	4426.0	297.4	178.4	129.7	118.9	105.5	89.2	70.3	59.5	56.8
62.5°	14616.3	3766.3	246.0	151.4	105.5	91.9	75.7	67.6	48.7	35.2	35.2
65°	13445.6	3055.2	210.9	121.7	86.5	67.6	51.4	48.7	29.8	16.2	13.5
67.5°	11753.1	2379.3	178.4	100.1	73.0	48.7	35.2	32.4	16.2	5.4	0.0
70°	8954.7	1622.2	148.7	81.1	54.1	35.2	24.4	18.9	10.8	2.7	0.0
72.5°	5161.4	892.2	124.3	62.2	40.6	27.0	18.9	10.8	10.8	0.0	0.0
75°	1844.0	383.9	94.7	46.0	32.4	21.6	13.5	5.4	8.1	2.7	0.0
77.5°	586.7	205.5	62.2	35.2	27.0	16.2	10.8	5.4	5.4	2.7	0.0
80°	173.0	108.1	37.8	29.8	18.9	13.5	8.1	2.7	5.4	2.7	0.0
82.5°	94.7	54.1	29.8	21.6	18.9	10.8	8.1	2.7	2.7	2.7	0.0
85°	48.7	32.4	24.4	21.6	18.9	10.8	8.1	2.7	0.0	2.7	2.7
87.5°	27.0	24.4	24.4	21.6	18.9	13.5	8.1	2.7	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)