

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: P321260

Luminaire Tested: **GAN-SA6D-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 34114 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 382
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

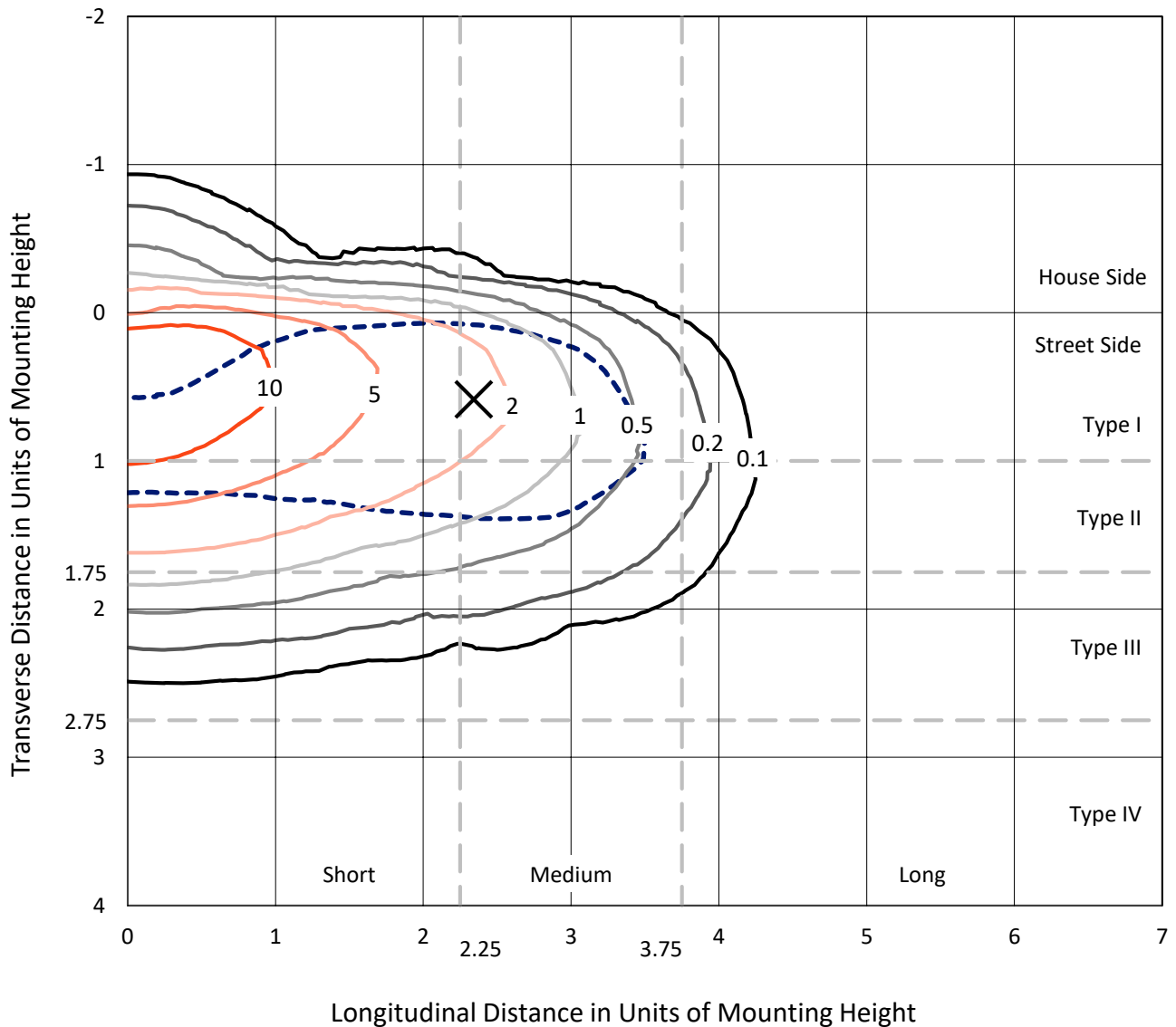




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Iso-Footcandle Lines of Horizontal Illumination

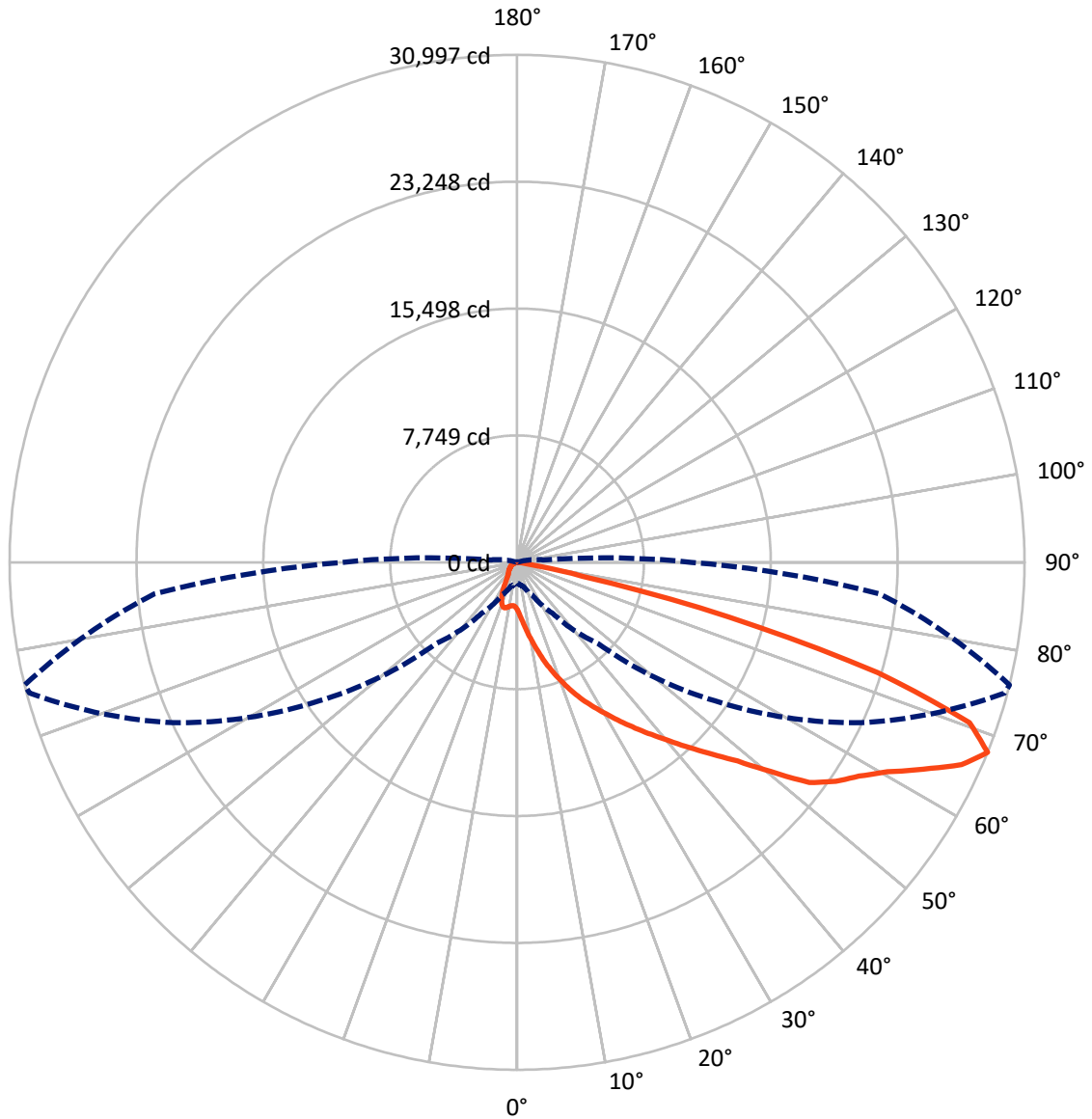
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1694.0	0.0	1694.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	32420.0	0.0	32420.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	34114.0	0.0	34114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.8	1.1
10°-20°	1426.5	4.2
20°-30°	2902.4	8.5
30°-40°	5037.7	14.8
40°-50°	7117.6	20.9
50°-60°	8071.7	23.7
60°-70°	6694.7	19.6
70°-80°	2425.0	7.1
80°-90°	78.6	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°	34114.0	100.0
0°-180°	34114.0	100.0

Coefficient of Utilization



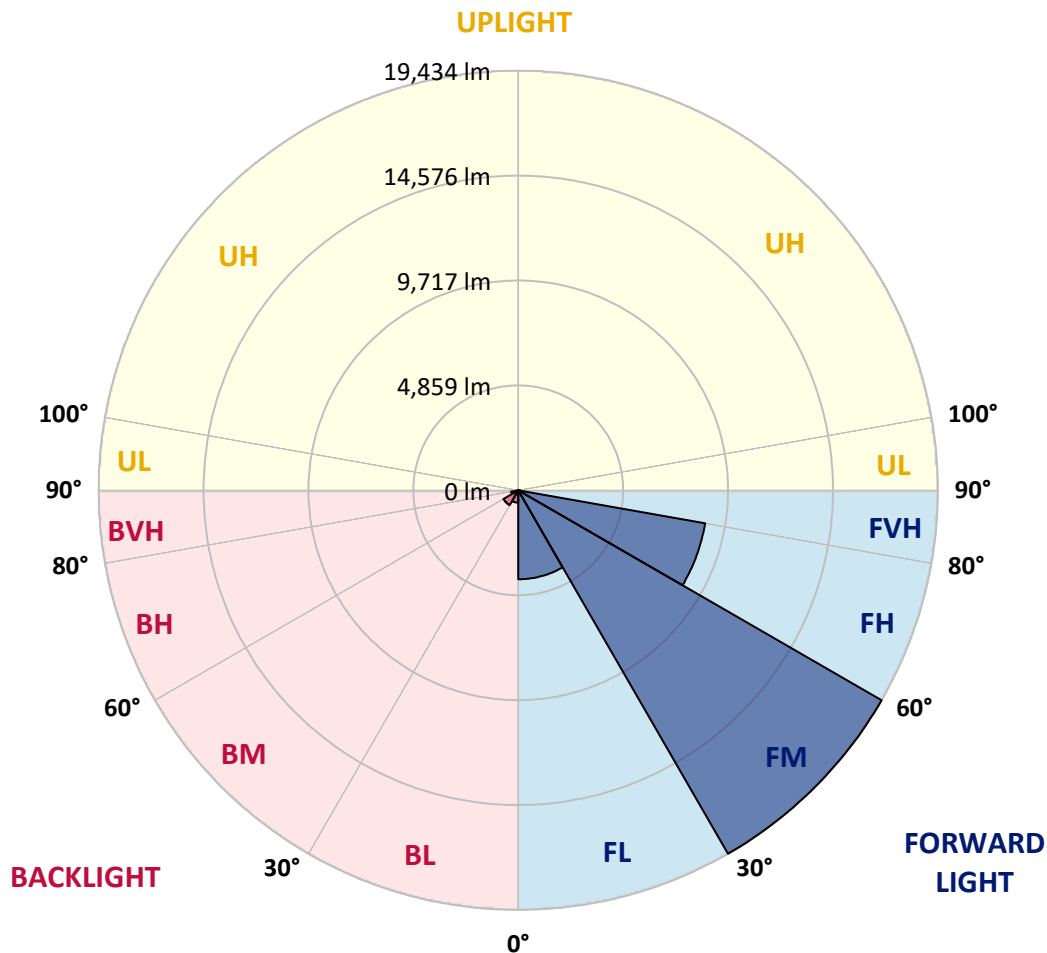
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4117.4	12.1			
FM (30°-60°)	19434.1	57.0			
FH (60°-80°)	8792.3	25.8			G4/12000
FVH (80°-90°)	76.2	0.2			G1/100
BL (0°-30°)	571.3	1.7	B2/1000		
BM (30°-60°)	792.8	2.3	B1/1000		
BH (60°-80°)	327.4	1.0	B1/500		G1/500
BVH (80°-90°)	2.5	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9
2.5°	4319.9	4222.7	4245.1	4182.3	4068.7	3835.6	3636.8	3448.4	3228.7	3221.2	3040.3
5°	5825.1	5742.9	5732.4	5605.3	5399.1	5003.0	4617.3	4177.9	3687.6	3651.7	3267.5
7.5°	7191.3	7125.5	7101.6	6950.6	6566.5	6180.8	5678.6	5032.9	4266.0	4200.3	3574.0
10°	8240.6	8209.2	8215.2	8107.6	7778.7	7420.0	6760.8	5937.2	4922.2	4820.6	3941.7
12.5°	9035.8	9043.3	9097.1	9031.3	8847.5	8581.4	7877.4	6901.3	5648.7	5509.7	4361.7
15°	9620.3	9657.6	9756.3	9838.5	9825.1	9594.9	8949.1	7880.4	6420.0	6266.0	4829.6
17.5°	9998.4	10040.3	10183.8	10366.2	10533.6	10479.8	9983.5	8825.1	7200.3	7022.4	5330.3
20°	10330.3	10379.6	10533.6	10774.2	11086.6	11153.9	10828.0	9741.4	7979.0	7762.3	5847.5
22.5°	11049.3	11047.8	11141.9	11282.4	11579.9	11753.3	11547.0	10591.9	8748.8	8523.1	6375.2
25°	12349.7	12300.4	12267.5	12156.9	12222.7	12330.3	12215.2	11387.1	9523.1	9294.4	6910.3
27.5°	13895.3	13925.2	13659.1	13361.7	13131.5	13020.9	12832.5	12124.0	10267.5	10016.4	7433.4
30°	15526.1	15535.0	15221.1	14841.5	14334.7	13914.7	13588.9	12828.0	11032.8	10759.3	7941.7
32.5°	16996.9	16938.6	16627.7	16110.5	15470.8	14998.4	14321.3	13614.3	11843.0	11578.4	8506.7
35°	18162.8	18094.1	17715.9	17245.0	16581.4	16106.0	15291.4	14399.0	12695.0	12436.4	9073.2
37.5°	19014.8	18934.1	18545.5	18061.2	17488.7	17212.2	16416.9	15252.5	13624.7	13346.7	9669.6
40°	19310.8	19240.5	18996.9	18642.6	18182.3	18119.5	17611.3	16234.6	14636.7	14340.7	10345.2
42.5°	19134.4	19065.7	18979.0	18859.4	18668.1	18727.8	18738.3	17354.2	15760.7	15469.3	11091.1
45°	18434.9	18373.6	18463.3	18638.2	18875.8	19171.8	19766.7	18557.4	17016.3	16705.4	11953.6
47.5°	17405.0	17360.1	17608.3	18044.7	18739.8	19555.9	20706.9	19822.0	18425.9	18137.4	13029.8
50°	15940.1	15932.6	16428.9	17225.6	18294.4	19741.3	21678.5	21260.0	20384.0	20080.6	14526.1
52.5°	13659.1	13674.1	14650.1	15925.2	17512.6	19615.7	22303.3	23107.5	22662.1	22346.7	15822.0
55°	11487.2	11576.9	12269.0	14107.5	16313.8	19149.4	22518.6	23970.0	23919.1	23620.2	16542.5
57.5°	9360.2	9523.1	10189.8	11907.3	14563.4	18074.6	22400.5	24343.7	24854.9	24626.2	17493.2
60°	7055.3	7130.0	7898.3	9503.7	12316.8	16113.5	21544.0	24546.9	26134.4	25975.9	18872.8
62.5°	4488.8	4675.6	5357.2	6905.8	9590.4	13390.1	20100.0	24544.0	27735.3	27822.0	20653.1
65°	2364.7	2582.9	2944.7	4279.5	6590.4	10348.2	17928.2	24313.8	29699.4	29820.5	22044.7
67.5°	1275.0	1337.8	1529.1	2221.2	3822.1	7010.4	14736.8	23177.7	30836.9	30996.8	22239.0
70°	932.7	967.1	1038.9	1228.7	1923.8	4071.7	10753.3	20602.3	29370.5	29310.7	19759.2
72.5°	716.0	769.8	823.6	899.8	1106.1	2173.4	6695.0	16132.9	23434.8	23040.2	14769.7
75°	565.0	574.0	650.2	719.0	829.6	1237.7	2973.1	9396.1	14303.4	13369.1	7659.1
77.5°	451.4	457.4	502.2	562.0	666.7	813.1	920.8	3696.5	4566.5	4074.7	1662.2
80°	267.6	282.5	373.7	433.5	553.1	512.7	336.3	802.7	713.0	645.7	279.5
82.5°	149.5	161.4	210.8	342.3	385.6	245.1	167.4	216.7	167.4	162.9	79.2
85°	0.0	7.5	136.0	212.3	156.9	53.8	70.3	71.7	49.3	46.3	31.4
87.5°	0.0	0.0	41.9	40.4	6.0	9.0	16.4	23.9	19.4	19.4	16.4
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°	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9
2.5°	2950.7	2869.9	2717.5	2568.0	2442.4	2339.3	2246.6	2209.3	2179.4	2174.9	2151.0
5°	3082.2	2919.3	2627.8	2388.6	2228.7	2115.1	2017.9	1958.1	1911.8	1893.9	1877.4
7.5°	3281.0	3034.4	2615.8	2340.8	2149.5	1958.1	1778.8	1584.4	1463.4	1417.0	1390.1
10°	3523.1	3186.8	2660.7	2327.3	1992.5	1588.9	1291.5	1044.8	944.7	911.8	902.8
12.5°	3805.7	3376.7	2738.4	2243.6	1657.7	1128.5	890.9	807.2	784.7	774.3	774.3
15°	4130.0	3584.4	2793.7	2001.5	1225.7	853.5	771.3	732.4	708.5	695.1	696.6
17.5°	4461.9	3787.7	2766.8	1650.2	904.3	759.3	698.1	656.2	623.3	609.9	606.9
20°	4796.7	3976.1	2617.3	1228.7	765.3	689.1	620.3	574.0	541.1	527.7	524.7
22.5°	5143.5	4136.0	2354.2	901.3	687.6	611.4	544.1	497.8	466.4	454.4	448.4
25°	5481.3	4266.0	1986.5	729.4	614.3	538.1	473.8	430.5	402.1	390.1	388.6
27.5°	5796.7	4348.3	1560.5	644.2	550.1	472.3	414.0	375.2	351.3	342.3	340.8
30°	6080.7	4355.7	1154.0	581.5	493.3	415.5	361.7	327.4	306.4	297.5	294.5
32.5°	6367.7	4293.0	840.1	524.7	441.0	366.2	313.9	287.0	272.0	264.6	264.6
35°	6638.2	4148.0	654.7	475.3	390.1	318.4	276.5	257.1	248.1	240.7	240.7
37.5°	6902.8	3940.2	556.1	432.0	342.3	278.0	243.6	231.7	224.2	216.7	216.7
40°	7171.9	3678.6	505.2	391.6	303.4	246.6	216.7	206.3	198.8	192.8	191.3
42.5°	7502.2	3376.7	472.3	354.3	269.1	218.2	191.3	179.4	173.4	167.4	164.4
45°	7884.9	3116.6	445.4	316.9	240.7	194.3	165.9	154.0	145.0	137.5	136.0
47.5°	8436.4	2928.2	409.6	276.5	213.8	168.9	143.5	130.0	116.6	109.1	107.6
50°	9140.5	2772.8	363.2	240.7	186.8	143.5	119.6	103.1	91.2	83.7	83.7
52.5°	9490.2	2569.5	321.4	209.3	156.9	121.1	97.2	77.7	71.7	64.3	64.3
55°	9630.7	2414.0	279.5	177.9	130.0	100.1	76.2	59.8	55.3	50.8	49.3
57.5°	10025.4	2369.2	243.6	151.0	107.6	79.2	58.3	44.8	41.9	35.9	35.9
60°	10660.6	2391.6	210.8	128.5	86.7	61.3	43.3	34.4	31.4	25.4	25.4
62.5°	11346.7	2363.2	177.9	110.6	67.3	44.8	29.9	25.4	25.4	14.9	13.5
65°	11478.3	2104.6	152.5	91.2	52.3	32.9	19.4	16.4	22.4	3.0	0.0
67.5°	10653.2	1632.3	131.5	70.3	38.9	25.4	14.9	7.5	19.4	0.0	0.0
70°	8518.6	1037.4	106.1	50.8	29.9	20.9	12.0	3.0	14.9	0.0	0.0
72.5°	6023.9	602.4	83.7	35.9	25.4	16.4	9.0	0.0	9.0	0.0	0.0
75°	3046.3	321.4	52.3	26.9	19.4	12.0	6.0	0.0	1.5	0.0	0.0
77.5°	659.2	149.5	32.9	19.4	13.5	7.5	3.0	0.0	0.0	0.0	0.0
80°	143.5	65.8	20.9	12.0	7.5	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	52.3	34.4	10.5	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.4	17.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	6.0	1.5	1.5	0.0	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)