

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: P268260

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-AFL-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8661.6 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 113
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

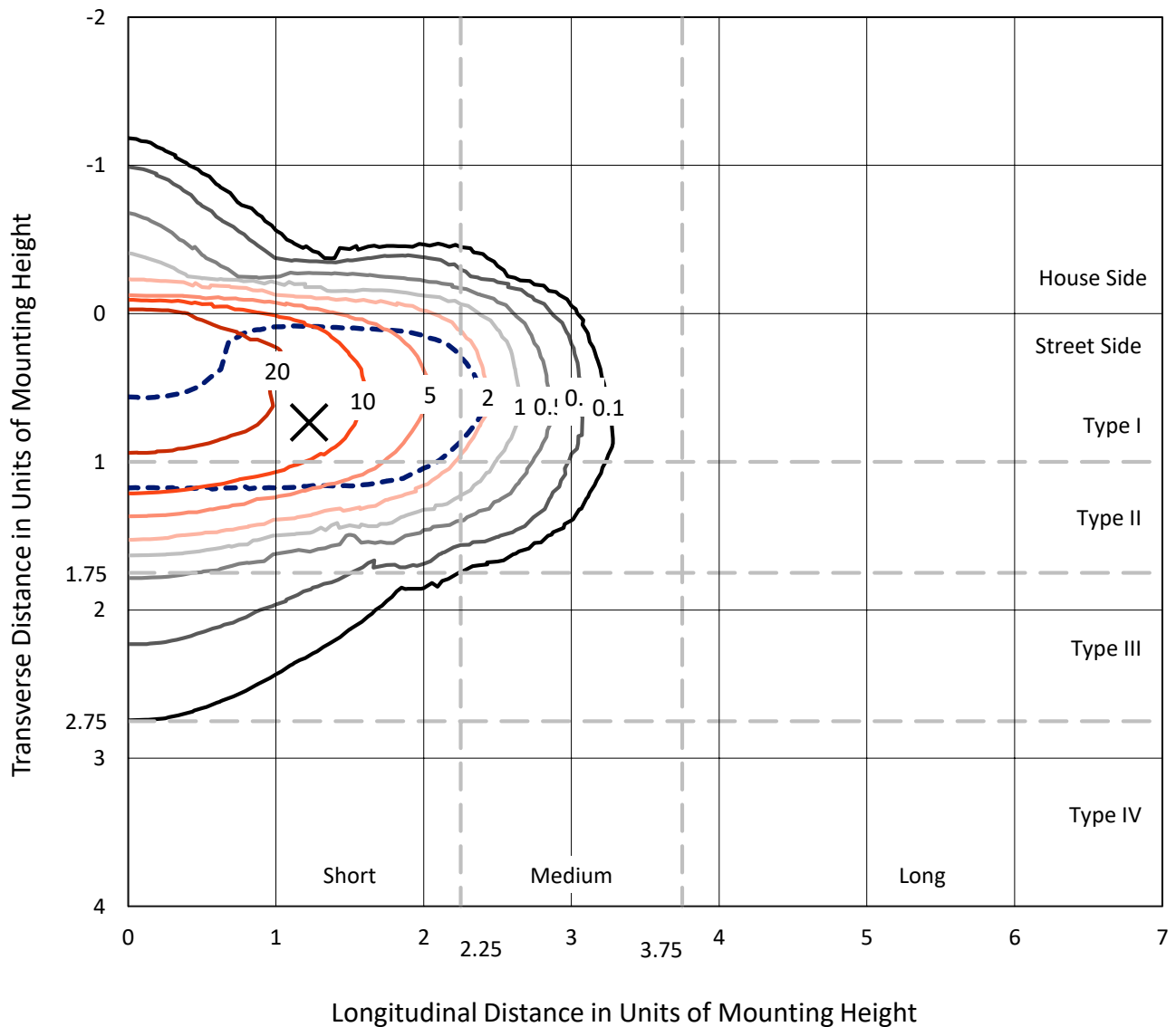


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

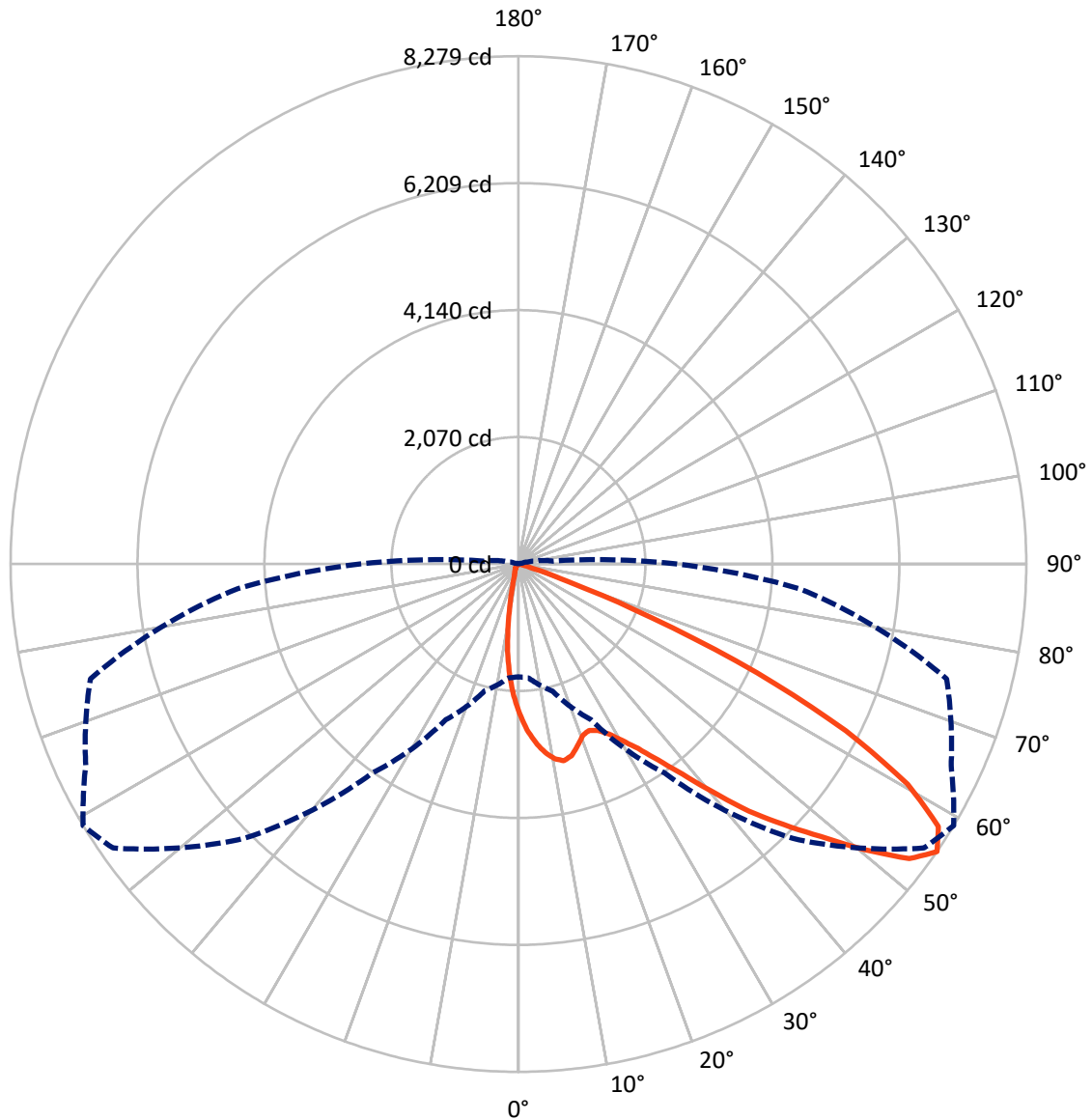


Based on 10 foot mounting height. Maximum calculated value = 30.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	483.8	0.0	483.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	8177.8	0.0	8177.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	8661.6	0.0	8661.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.2	2.4
10°-20°	489.0	5.6
20°-30°	832.0	9.6
30°-40°	1430.9	16.5
40°-50°	2209.2	25.5
50°-60°	2220.9	25.6
60°-70°	1138.9	13.1
70°-80°	123.4	1.4
80°-90°	12.9	0.1
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°	8661.6	100.0
0°-180°	8661.6	100.0

Coefficient of Utilization



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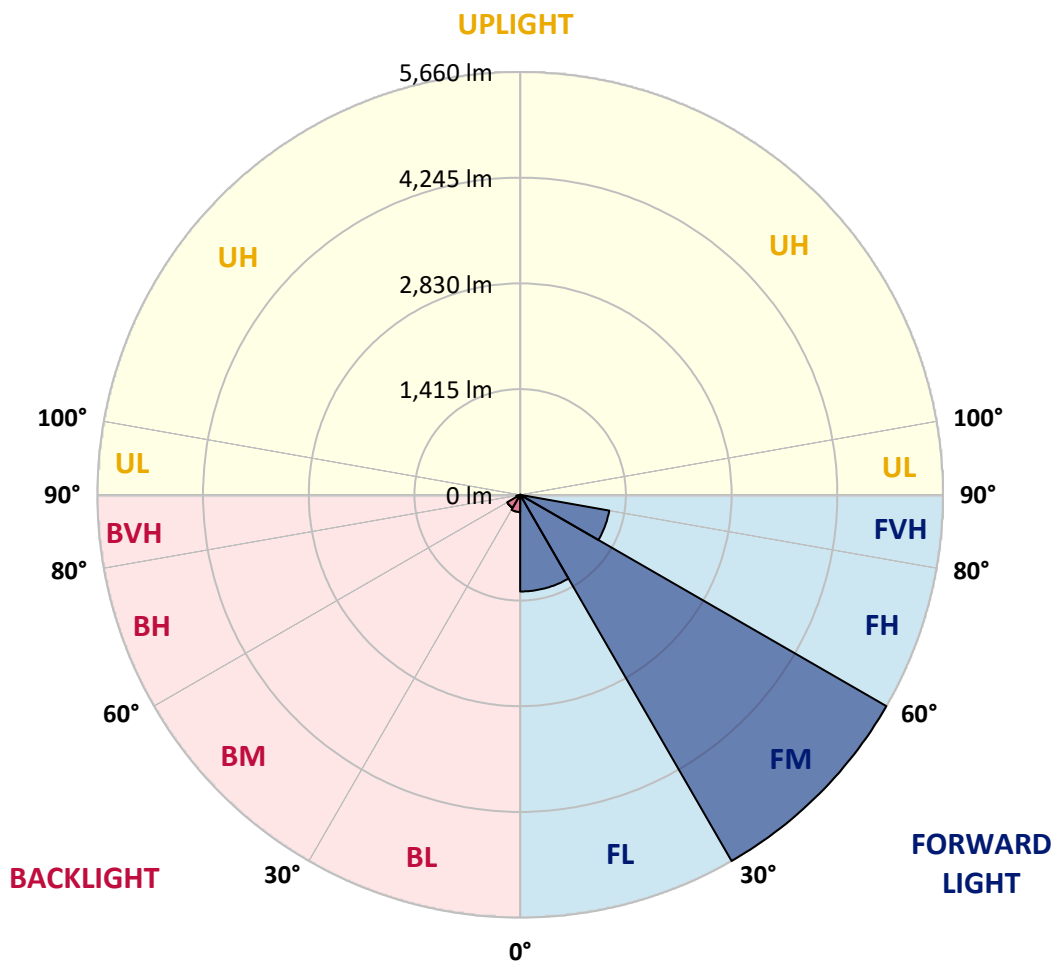
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1294.3	14.9			
FM	(30°-60°)	5660.3	65.3			
FH	(60°-80°)	1210.5	14.0			G1/1800
FVH	(80°-90°)	12.6	0.1			G1/100
BL	(0°-30°)	230.9	2.7	B1/500		
BM	(30°-60°)	200.8	2.3	B0/220		
BH	(60°-80°)	51.8	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2438.2	2438.2	2438.2	2438.2	2438.2	2438.2	2438.2	2438.2	2438.2	2438.2	2438.2
2.5°	2884.9	2854.3	2845.1	2839.0	2810.8	2775.6	2727.6	2705.1	2659.1	2585.0	2494.0
5°	3149.2	3143.6	3123.1	3111.9	3081.7	3031.7	2955.0	2918.1	2845.1	2720.3	2557.4
7.5°	3033.7	3069.0	3097.0	3144.1	3203.4	3201.4	3136.9	3098.7	3016.8	2852.3	2627.8
10°	2587.5	2616.0	2662.0	2768.9	2986.7	3178.8	3254.5	3226.9	3161.4	2973.4	2695.9
12.5°	2500.1	2497.0	2505.2	2536.4	2650.3	2924.3	3234.5	3290.3	3276.9	3084.3	2760.2
15°	2546.5	2543.0	2541.9	2552.8	2580.3	2695.9	3084.8	3244.8	3347.5	3187.0	2814.8
17.5°	2676.9	2661.6	2653.5	2644.7	2636.5	2665.1	2904.8	3117.5	3358.3	3276.9	2860.5
20°	2900.3	2874.8	2844.6	2795.4	2749.5	2735.2	2829.2	2986.7	3320.0	3345.5	2890.0
22.5°	3180.9	3148.2	3096.1	3006.5	2913.1	2858.9	2866.5	2945.3	3262.7	3420.1	2904.0
25°	3496.4	3454.4	3384.9	3260.7	3123.1	3027.1	2977.0	3004.6	3236.7	3507.5	2919.8
27.5°	3834.1	3787.7	3696.6	3527.5	3371.6	3241.8	3139.4	3136.0	3281.1	3622.1	2945.3
30°	4168.9	4161.8	4043.2	3864.2	3657.8	3499.8	3352.7	3333.7	3405.4	3780.4	2995.8
32.5°	4615.8	4562.0	4416.8	4232.9	3994.7	3805.0	3630.7	3586.8	3595.9	3964.9	3074.1
35°	5179.0	5120.2	4915.7	4661.8	4395.3	4171.5	3978.9	3919.0	3896.5	4267.0	3206.0
37.5°	5542.9	5542.0	5413.6	5155.0	4869.3	4622.4	4412.7	4342.8	4297.2	4632.1	3410.4
40°	5552.7	5576.7	5593.6	5591.1	5387.6	5160.1	4974.1	4887.7	4781.9	5119.7	3674.6
42.5°	5254.6	5316.4	5465.3	5717.7	5838.4	5748.0	5591.1	5506.2	5348.7	5641.5	3996.6
45°	4851.8	4894.9	5155.0	5620.2	6082.8	6330.6	6211.1	6059.2	5851.6	6186.0	4285.5
47.5°	4671.5	4679.1	4847.3	5357.9	6101.1	6808.1	6880.7	6633.8	6308.6	6624.6	4511.5
50°	4132.2	4145.9	4378.0	4903.5	5885.4	7033.5	7553.3	7319.2	6807.0	6962.5	4593.8
52.5°	3114.5	3133.8	3428.3	4156.6	5292.5	6937.4	8034.8	7978.0	7352.9	7127.5	4598.3
55°	1837.7	1863.2	2144.3	2798.0	4162.8	6326.0	8070.6	8279.1	7783.9	7225.2	4591.1
57.5°	858.2	876.0	1037.2	1441.4	2588.9	4999.5	7531.8	8072.7	8021.5	7276.8	4641.8
60°	456.0	461.1	499.8	624.1	1170.0	3170.2	6480.5	7289.6	7804.8	7348.3	4703.6
62.5°	348.6	350.1	348.2	362.9	491.7	1407.3	4898.4	5992.8	6932.3	7294.6	4635.2
65°	302.1	304.6	290.3	286.7	315.3	502.0	2910.0	4271.7	5447.3	6570.4	4168.4
67.5°	270.8	271.9	254.6	239.8	244.9	271.4	1148.0	2338.6	3605.6	4816.2	3021.4
70°	249.4	248.4	229.4	206.0	199.3	185.5	364.9	857.3	1723.0	2442.3	1405.2
72.5°	220.9	221.3	212.1	181.5	165.6	129.8	169.2	250.0	514.2	665.6	329.1
75°	195.8	193.2	181.9	162.6	136.5	85.3	83.8	111.4	158.5	157.5	71.1
77.5°	141.7	139.1	142.7	133.4	104.8	55.2	42.0	53.7	64.4	62.3	19.9
80°	103.8	102.2	91.9	110.9	92.5	37.8	26.1	28.7	33.2	28.0	6.1
82.5°	71.1	70.5	64.9	61.4	52.6	22.9	16.3	17.8	21.5	15.8	3.1
85°	11.3	12.8	47.0	37.3	31.3	10.2	11.3	12.2	14.4	8.8	1.0
87.5°	0.0	0.0	22.0	19.5	6.1	4.1	6.6	7.1	7.1	4.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2438.2	2438.2	2438.2	2438.2	2438.2	2438.2	2438.2	2438.2	2438.2	2438.2	2438.2
2.5°	2447.4	2396.3	2301.7	2204.1	2113.6	2005.7	1931.6	1875.9	1811.5	1794.2	1832.0
5°	2464.3	2367.7	2164.2	1942.9	1734.8	1504.3	1328.0	1188.5	1062.2	1019.2	1058.2
7.5°	2490.8	2347.2	2015.4	1651.1	1289.2	929.2	682.9	520.8	417.6	386.9	403.2
10°	2517.4	2317.5	1843.2	1305.4	810.7	452.3	294.5	235.1	213.2	208.5	211.1
12.5°	2539.4	2277.7	1633.1	928.3	433.4	242.4	192.6	183.0	179.9	179.9	181.0
15°	2552.8	2217.3	1384.2	590.4	249.4	183.0	168.2	165.1	165.1	165.6	166.6
17.5°	2551.1	2140.8	1111.7	357.3	186.6	162.1	153.3	150.7	150.2	151.4	151.9
20°	2532.2	2040.5	838.3	235.6	162.6	147.7	139.1	134.4	133.8	134.9	136.0
22.5°	2496.5	1916.9	599.6	181.5	146.8	133.8	123.2	119.0	119.0	120.2	121.1
25°	2453.0	1765.4	409.9	153.9	132.4	119.0	108.9	105.3	106.3	108.9	109.5
27.5°	2398.8	1595.3	278.6	132.0	115.1	104.3	96.6	94.1	96.6	100.3	101.1
30°	2352.3	1418.0	198.9	113.9	97.6	90.0	85.3	85.3	88.9	95.6	97.1
32.5°	2316.5	1246.2	153.3	100.7	84.9	78.2	75.6	78.2	83.8	90.5	91.9
35°	2312.0	1104.6	129.8	90.0	75.6	69.0	68.0	72.7	78.2	83.4	84.4
37.5°	2347.2	973.8	117.0	81.2	67.5	61.4	60.4	65.9	71.5	77.8	79.2
40°	2414.1	870.9	107.8	73.1	60.8	54.2	52.1	56.2	63.9	72.0	74.1
42.5°	2501.2	786.1	97.6	64.9	54.2	44.9	42.4	47.0	55.2	63.9	66.5
45°	2583.9	713.1	86.3	55.8	45.5	34.8	33.7	39.9	43.9	52.6	54.6
47.5°	2629.3	648.7	76.6	45.5	35.3	28.0	28.0	29.6	33.7	43.9	46.1
50°	2614.1	597.1	66.5	33.7	24.6	21.5	21.5	21.0	27.0	35.3	36.8
52.5°	2583.3	567.4	57.2	26.1	16.9	15.4	13.8	15.4	19.0	22.5	22.9
55°	2578.8	562.2	48.1	21.0	11.8	10.2	7.6	7.6	7.6	7.1	6.1
57.5°	2614.5	570.5	40.3	16.9	8.8	6.6	4.1	0.0	0.0	0.0	0.0
60°	2651.3	579.1	34.8	11.8	6.1	3.6	0.4	0.0	0.0	0.0	0.0
62.5°	2590.1	559.7	29.1	7.1	4.6	1.5	0.0	0.0	0.0	0.0	0.0
65°	2275.1	476.5	22.9	5.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1618.2	319.0	15.4	3.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	738.6	133.4	9.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	157.9	41.4	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	32.2	30.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.2	47.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.1	34.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)