

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: P484126

Luminaire Tested: **IFLD-S-SA3D-827-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484126
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

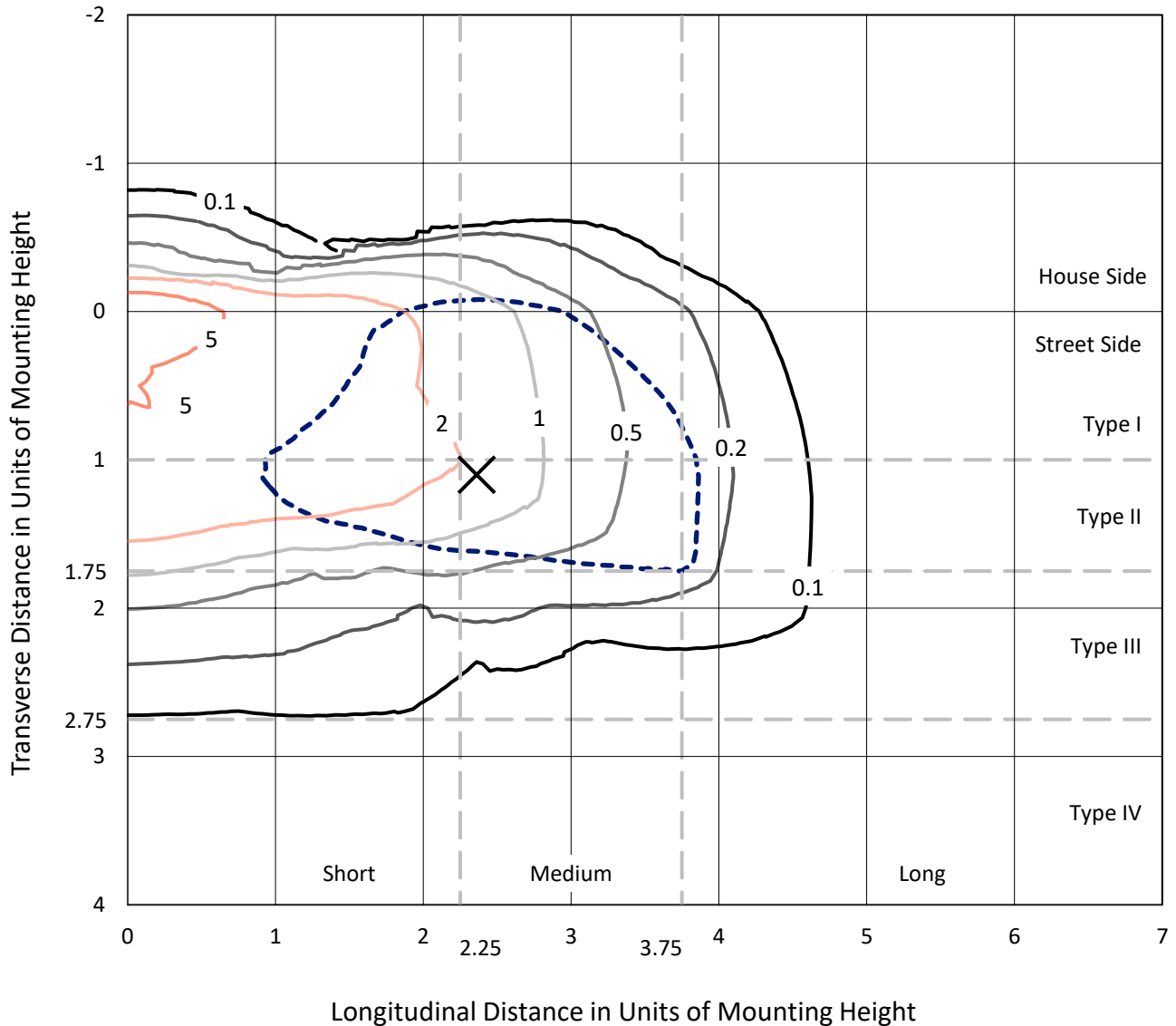
Lumens per Lamp: N/A
Luminaire Lumens: 14101.3 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
Input Voltage (V): 120
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

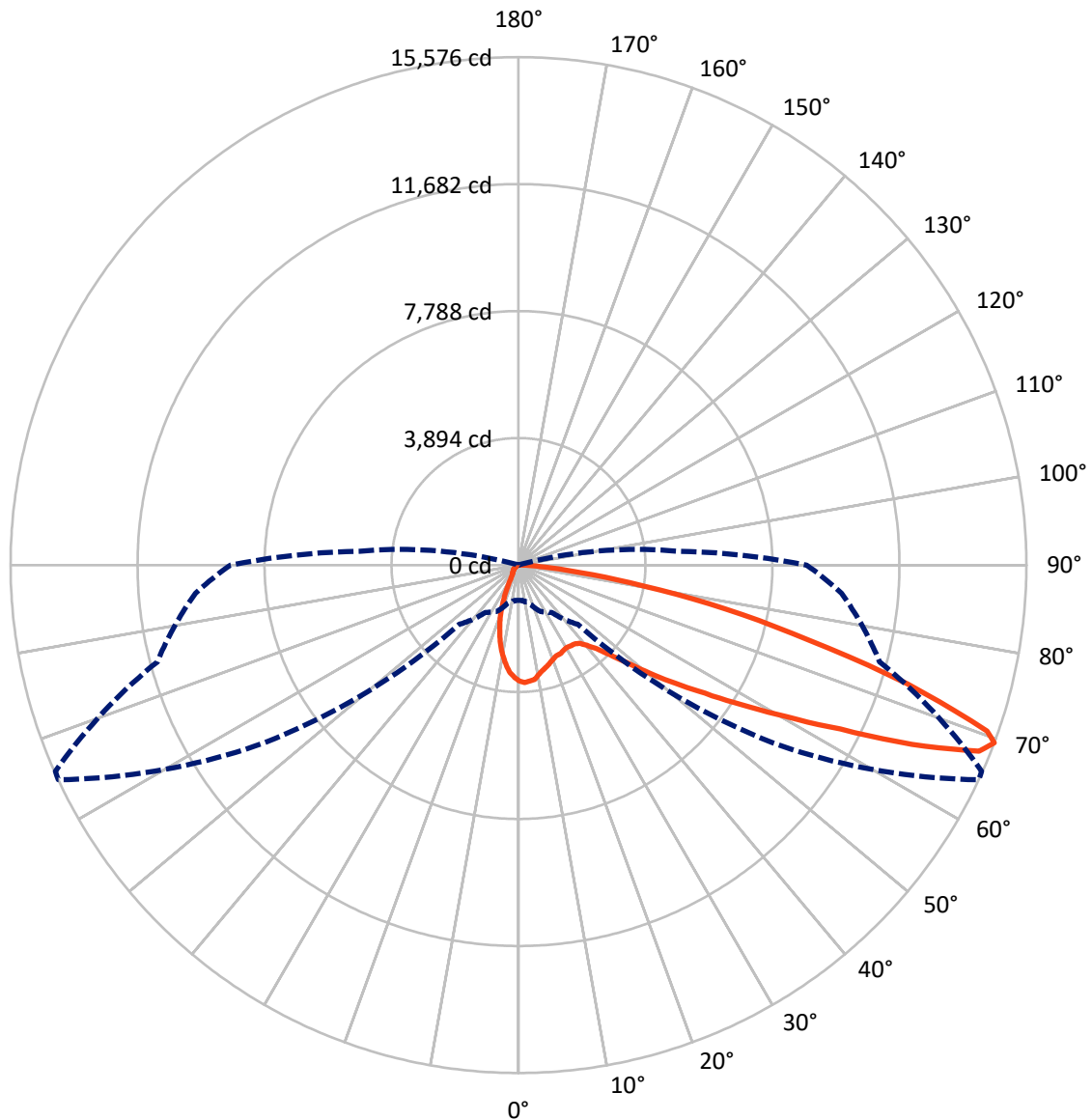
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1710.6	0.0	1710.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	12390.8	0.0	12390.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	14101.3	0.0	14101.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.9	2.1
10°-20°	636.6	4.5
20°-30°	886.2	6.3
30°-40°	1255.9	8.9
40°-50°	1979.2	14.0
50°-60°	3211.6	22.8
60°-70°	3586.7	25.4
70°-80°	2019.7	14.3
80°-90°	234.4	1.7
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°	14101.3	100.0
0°-180°	14101.3	100.0



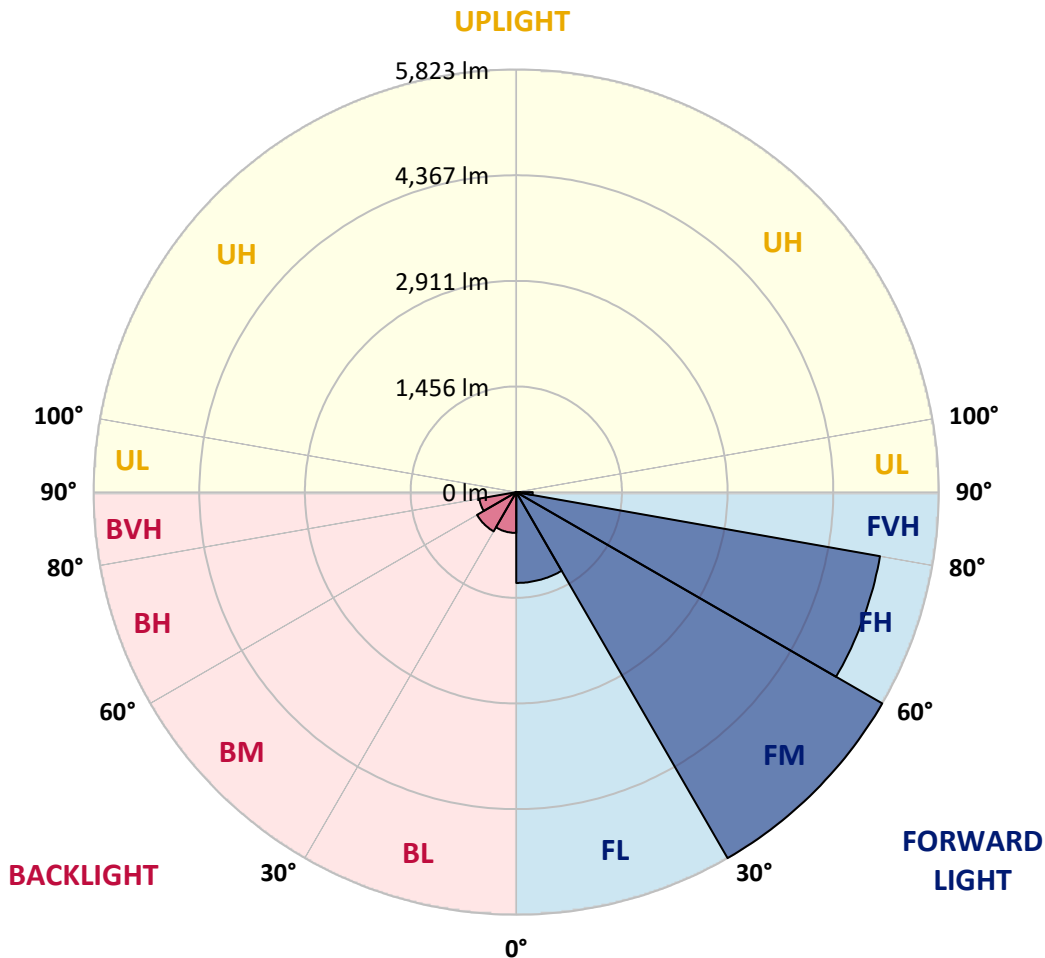
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1251.4	8.9			
FM (30°-60°)	5822.6	41.3			
FH (60°-80°)	5088.9	36.1			G3/7500
FVH (80°-90°)	227.9	1.6			G3/500
BL (0°-30°)	562.4	4.0	B2/1000		
BM (30°-60°)	624.2	4.4	B1/1000		
BH (60°-80°)	517.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	6.5	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3
2.5°	3424.0	3450.7	3458.3	3484.9	3498.2	3555.3	3587.6	3606.6	3597.1	3618.0	3620.0
5°	3180.5	3165.3	3205.3	3233.8	3294.7	3393.6	3494.4	3572.4	3608.5	3642.8	3637.1
7.5°	2919.9	2912.3	2952.3	3016.9	3072.1	3191.9	3353.6	3545.8	3538.2	3621.9	3646.6
10°	2741.1	2748.7	2762.0	2826.7	2908.5	3030.3	3231.9	3410.7	3450.7	3627.6	3677.0
12.5°	2577.5	2590.8	2615.6	2682.2	2777.3	2902.8	3098.7	3308.0	3368.9	3595.2	3694.1
15°	2524.3	2493.8	2543.3	2592.7	2691.7	2803.9	2969.4	3230.0	3256.6	3557.2	3722.7
17.5°	2480.5	2461.5	2484.3	2524.3	2628.9	2720.2	2876.2	3146.3	3195.8	3542.0	3718.9
20°	2493.8	2476.7	2486.2	2516.7	2564.2	2649.8	2794.4	3066.4	3119.7	3471.6	3713.2
22.5°	2531.9	2545.2	2528.1	2535.7	2550.9	2594.6	2750.6	3009.3	3055.0	3458.3	3745.5
25°	2703.1	2680.2	2657.4	2647.9	2558.5	2577.5	2737.3	3005.5	3037.9	3410.7	3718.9
27.5°	2881.9	2862.9	2853.4	2798.2	2676.4	2619.4	2739.2	2952.3	2996.0	3391.7	3686.5
30°	3098.7	3123.5	3085.4	3018.8	2849.5	2708.8	2760.1	2925.6	2986.5	3319.4	3665.6
32.5°	3327.0	3340.3	3359.3	3309.9	3091.1	2843.8	2822.9	2950.4	2954.2	3319.4	3618.0
35°	3585.7	3566.7	3616.1	3620.0	3427.8	3083.5	2942.8	2967.5	3007.4	3304.2	3600.9
37.5°	3808.3	3840.6	3897.7	3989.0	3791.2	3422.1	3129.2	3047.4	3064.5	3374.6	3614.2
40°	4051.8	4084.1	4213.4	4304.8	4192.5	3802.6	3412.6	3233.8	3247.1	3479.2	3682.7
42.5°	4320.0	4382.7	4536.8	4696.6	4666.2	4285.7	3777.8	3507.7	3502.0	3739.8	3823.5
45°	4683.3	4767.0	4934.4	5118.9	5145.5	4839.3	4264.8	3916.7	3935.7	4080.3	4114.5
47.5°	5189.3	5185.5	5349.1	5554.5	5708.6	5413.8	4846.9	4466.4	4464.5	4618.6	4546.3
50°	5678.2	5680.1	5723.8	5961.6	6361.1	6210.8	5567.8	5196.9	5176.0	5252.1	5136.0
52.5°	5904.5	5877.9	5845.6	6132.8	6863.3	7215.2	6480.9	6024.4	6007.3	5961.6	5931.2
55°	5666.8	5676.3	5674.4	5973.0	7127.7	8274.7	7652.7	6935.5	6907.0	6764.3	6806.2
57.5°	4904.0	4873.5	4940.1	5406.1	6825.2	8997.6	9328.6	8084.5	8010.3	7536.7	7441.5
60°	3650.4	3659.9	3715.1	4264.8	6073.8	9149.7	10932.1	9433.2	9113.6	8080.7	7949.4
62.5°	2549.0	2530.0	2550.9	2859.1	4342.8	8541.0	12016.4	11072.9	10764.7	8698.9	8622.8
65°	1824.2	1799.5	1883.2	2071.5	2608.0	6530.4	12170.5	13256.7	12980.8	9686.2	9503.6
67.5°	1312.5	1308.7	1405.8	1748.2	1852.8	3760.7	11029.2	15235.0	15067.6	10858.0	10040.0
69°	1086.2	1088.1	1181.3	1565.5	1769.1	2568.0	9490.2	15575.5	15545.1	11462.9	9939.2
70°	947.3	954.9	1063.3	1457.1	1734.8	2111.5	8181.5	15240.7	15210.3	11580.8	9606.3
72.5°	584.0	589.7	732.4	1168.0	1649.2	1723.4	4892.5	12469.1	12573.8	11040.6	8276.6
75°	279.6	281.5	384.3	844.6	1590.3	1634.0	2621.3	9201.1	9421.8	8913.9	6467.6
77.5°	148.4	148.4	184.5	448.9	1287.8	1537.0	1556.0	6490.4	6673.0	5636.3	3677.0
80°	74.2	76.1	112.2	234.0	798.9	1506.6	1215.5	3871.0	3970.0	2299.8	1145.1
82.5°	28.5	30.4	53.3	140.8	414.7	1272.6	1067.2	1904.1	1879.4	538.3	279.6
85°	3.8	3.8	19.0	83.7	176.9	561.2	880.7	795.1	768.5	117.9	135.1
87.5°	0.0	0.0	3.8	24.7	53.3	163.6	340.5	218.8	243.5	32.3	66.6
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°	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3
2.5°	3610.4	3570.5	3509.6	3450.7	3387.9	3311.8	3228.1	3197.7	3144.4	3140.6	3171.0
5°	3606.6	3542.0	3435.4	3309.9	3131.1	2996.0	2849.5	2743.0	2661.2	2608.0	2621.3
7.5°	3625.7	3547.7	3363.2	3093.0	2862.9	2594.6	2368.3	2212.3	2069.6	1999.2	1991.6
10°	3595.2	3490.6	3220.5	2841.9	2503.3	2128.6	1797.6	1588.4	1375.3	1297.3	1301.1
12.5°	3612.3	3465.9	3066.4	2583.2	2117.2	1630.2	1234.6	949.2	749.5	684.8	677.2
15°	3623.8	3412.6	2918.0	2273.2	1689.2	1110.9	715.2	538.3	475.6	464.1	462.2
17.5°	3580.0	3347.9	2708.8	1966.9	1251.7	675.3	475.6	439.4	428.0	420.4	416.6
20°	3578.1	3309.9	2528.1	1653.0	835.1	460.3	410.9	397.6	380.4	374.7	374.7
22.5°	3545.8	3230.0	2311.2	1308.7	532.6	395.7	369.0	348.1	329.1	321.5	319.6
25°	3536.3	3136.8	2107.7	983.5	405.2	353.8	327.2	296.7	273.9	262.5	256.8
27.5°	3509.6	3056.9	1902.2	692.4	353.8	315.8	281.5	249.2	222.6	205.4	203.5
30°	3414.5	2973.2	1674.0	479.4	321.5	279.6	241.6	203.5	176.9	165.5	161.7
32.5°	3374.6	2895.2	1424.8	369.0	292.9	247.3	203.5	169.3	148.4	137.0	135.1
35°	3327.0	2781.1	1183.2	321.5	266.3	215.0	171.2	142.7	125.5	116.0	116.0
37.5°	3332.7	2689.8	956.8	291.0	237.8	184.5	146.5	121.7	106.5	97.0	97.0
40°	3315.6	2617.5	743.8	264.4	211.1	157.9	123.6	102.7	89.4	79.9	78.0
42.5°	3393.6	2598.5	561.2	241.6	184.5	135.1	106.5	87.5	74.2	62.8	62.8
45°	3524.8	2628.9	437.5	220.7	157.9	116.0	91.3	72.3	59.0	51.4	49.5
47.5°	3874.9	2748.7	342.4	203.5	135.1	100.8	76.1	59.0	47.6	39.9	38.0
50°	4382.7	3016.9	291.0	178.8	114.1	85.6	62.8	45.7	38.0	30.4	28.5
52.5°	5105.6	3467.8	264.4	157.9	95.1	70.4	49.5	36.1	28.5	22.8	20.9
55°	5893.1	4030.8	239.7	133.2	79.9	57.1	39.9	28.5	20.9	15.2	13.3
57.5°	6507.5	4517.8	218.8	110.3	64.7	45.7	30.4	20.9	15.2	9.5	7.6
60°	7179.0	4860.2	192.1	87.5	53.3	34.2	22.8	15.2	11.4	5.7	5.7
62.5°	7871.4	5261.6	157.9	68.5	41.8	26.6	17.1	11.4	7.6	1.9	1.9
65°	8834.0	5575.4	121.7	53.3	32.3	19.0	13.3	9.5	3.8	0.0	0.0
67.5°	9106.0	5421.4	89.4	41.8	22.8	13.3	9.5	5.7	1.9	0.0	0.0
69°	8834.0	4883.0	78.0	36.1	19.0	11.4	7.6	3.8	1.9	0.0	0.0
70°	8337.5	4464.5	68.5	30.4	17.1	11.4	5.7	3.8	1.9	0.0	0.0
72.5°	6973.6	3424.0	53.3	22.8	13.3	9.5	5.7	3.8	0.0	0.0	0.0
75°	5115.1	2115.3	39.9	17.1	11.4	7.6	5.7	3.8	0.0	0.0	0.0
77.5°	2741.1	772.3	28.5	11.4	7.6	5.7	5.7	3.8	0.0	0.0	0.0
80°	751.4	228.3	20.9	7.6	5.7	3.8	3.8	1.9	0.0	0.0	0.0
82.5°	205.4	59.0	13.3	7.6	5.7	3.8	1.9	0.0	0.0	0.0	0.0
85°	110.3	22.8	7.6	5.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	57.1	7.6	5.7	3.8	3.8	1.9	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)