

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: P483853

Luminaire Tested: **IFLD-S-SA3D-722-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483853
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

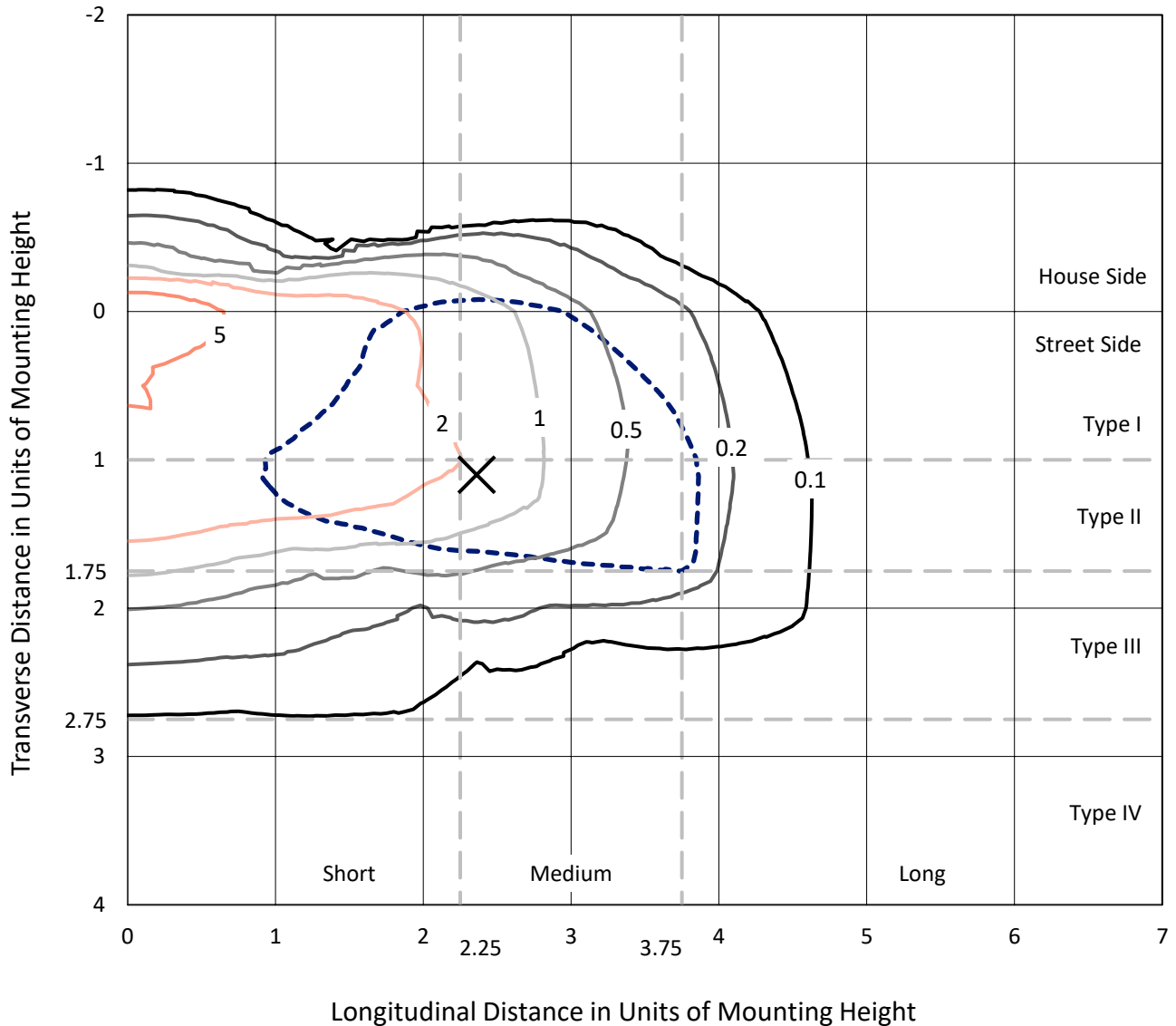
Lumens per Lamp: N/A
Luminaire Lumens: 14130.1 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

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

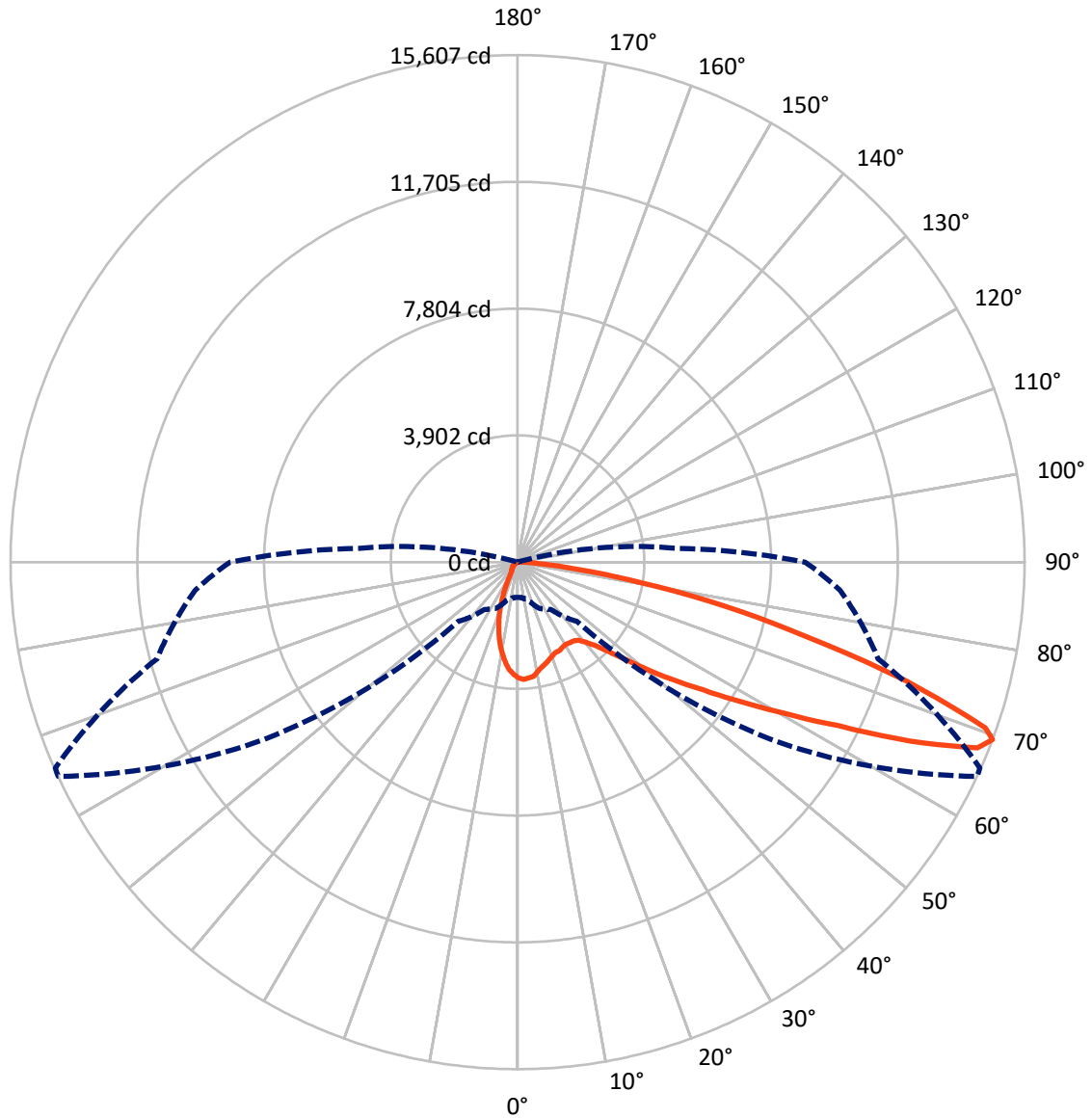
× Max cd
 - - - 1/2 Max cd



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	1714.1	0.0	1714.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	12416.0	0.0	12416.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	14130.1	0.0	14130.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.5	2.1
10°-20°	637.9	4.5
20°-30°	888.1	6.3
30°-40°	1258.5	8.9
40°-50°	1983.3	14.0
50°-60°	3218.2	22.8
60°-70°	3594.1	25.4
70°-80°	2023.9	14.3
80°-90°	234.8	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°	14130.1	100.0
0°-180°	14130.1	100.0



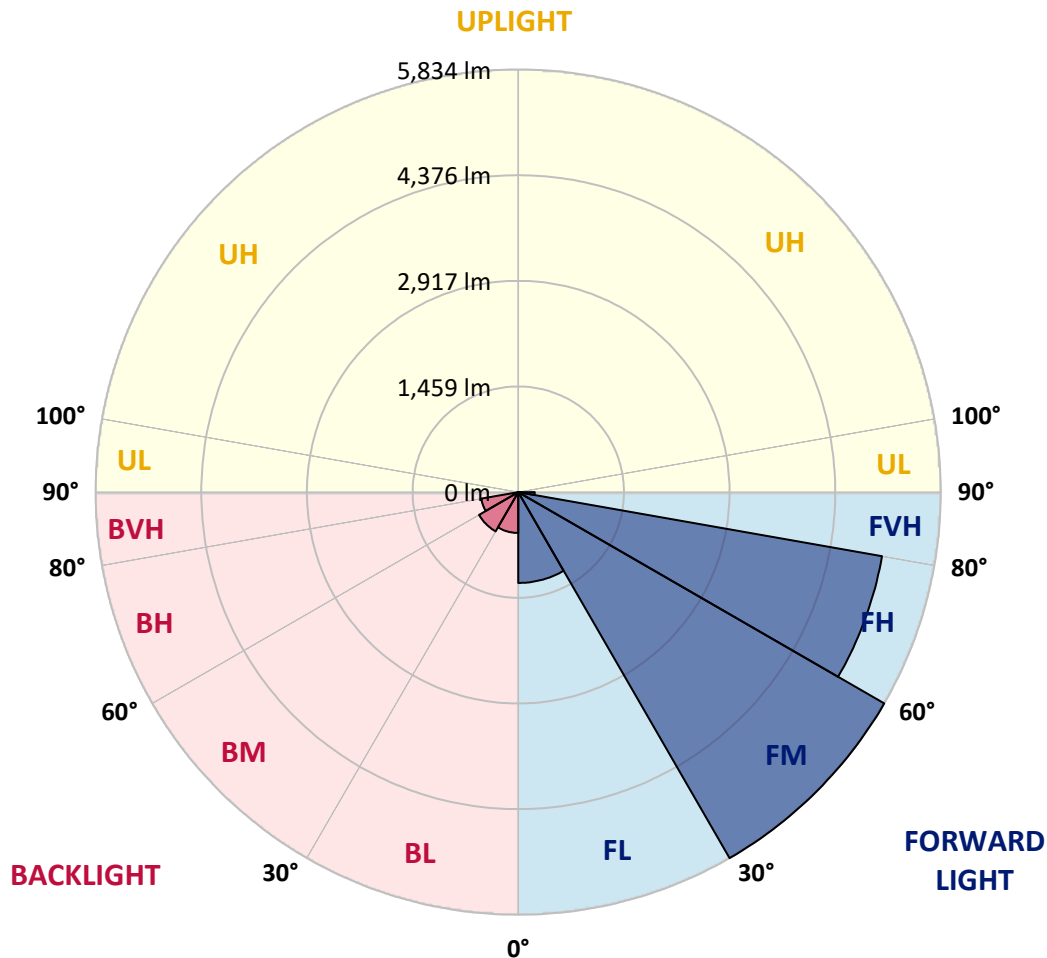
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.9	8.9			
FM (30°-60°)	5834.5	41.3			
FH (60°-80°)	5099.3	36.1			G3/7500
FVH (80°-90°)	228.4	1.6			G3/500
BL (0°-30°)	563.5	4.0	B2/1000		
BM (30°-60°)	625.5	4.4	B1/1000		
BH (60°-80°)	518.6	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°	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5
2.5°	3431.0	3457.7	3465.3	3492.0	3505.3	3562.5	3594.9	3614.0	3604.5	3625.4	3627.3
5°	3187.0	3171.8	3211.8	3240.4	3301.4	3400.5	3501.5	3579.7	3615.9	3650.2	3644.5
7.5°	2925.9	2918.3	2958.3	3023.1	3078.4	3198.5	3360.5	3553.0	3545.4	3629.2	3654.0
10°	2746.7	2754.3	2767.7	2832.5	2914.5	3036.4	3238.5	3417.7	3457.7	3635.0	3684.5
12.5°	2582.8	2596.1	2620.9	2687.6	2782.9	2908.7	3105.1	3314.7	3375.7	3602.6	3701.7
15°	2529.4	2498.9	2548.5	2598.0	2697.2	2809.6	2975.4	3236.6	3263.3	3564.4	3730.3
17.5°	2485.6	2466.5	2489.4	2529.4	2634.3	2725.7	2882.0	3152.7	3202.3	3549.2	3726.5
20°	2498.9	2481.8	2491.3	2521.8	2569.4	2655.2	2800.1	3072.7	3126.0	3478.7	3720.7
22.5°	2537.0	2550.4	2533.2	2540.9	2556.1	2599.9	2756.2	3015.5	3061.2	3465.3	3753.1
25°	2708.6	2685.7	2662.8	2653.3	2563.7	2582.8	2742.9	3011.7	3044.1	3417.7	3726.5
27.5°	2887.8	2868.7	2859.2	2803.9	2681.9	2624.7	2744.8	2958.3	3002.1	3398.6	3694.1
30°	3105.1	3129.8	3091.7	3025.0	2855.4	2714.3	2765.8	2931.6	2992.6	3326.2	3673.1
32.5°	3333.8	3347.1	3366.2	3316.6	3097.4	2849.6	2828.7	2956.4	2960.2	3326.2	3625.4
35°	3593.0	3574.0	3623.5	3627.3	3434.8	3089.8	2948.8	2973.5	3013.6	3310.9	3608.3
37.5°	3816.0	3848.4	3905.6	3997.1	3798.9	3429.1	3135.6	3053.6	3070.8	3381.4	3621.6
40°	4060.0	4092.4	4222.0	4313.5	4201.1	3810.3	3419.6	3240.4	3253.7	3486.3	3690.2
42.5°	4328.8	4391.7	4546.1	4706.2	4675.7	4294.5	3785.5	3514.9	3509.2	3747.4	3831.3
45°	4692.9	4776.7	4944.5	5129.4	5156.0	4849.2	4273.5	3924.7	3943.8	4088.6	4122.9
47.5°	5199.9	5196.1	5360.0	5565.9	5720.3	5424.8	4856.8	4475.6	4473.7	4628.0	4555.6
50°	5689.8	5691.7	5735.5	5973.8	6374.1	6223.5	5579.2	5207.5	5186.5	5262.8	5146.5
52.5°	5916.6	5889.9	5857.5	6145.3	6877.3	7229.9	6494.1	6036.7	6019.5	5973.8	5943.3
55°	5678.3	5687.8	5685.9	5985.2	7142.2	8291.6	7668.3	6949.7	6921.1	6778.1	6820.1
57.5°	4914.0	4883.5	4950.2	5417.2	6839.1	9015.9	9347.6	8101.0	8026.7	7552.0	7456.7
60°	3657.8	3667.4	3722.6	4273.5	6086.2	9168.4	10954.4	9452.4	9132.2	8097.2	7965.7
62.5°	2554.2	2535.1	2556.1	2864.9	4351.7	8558.5	12040.9	11095.5	10786.7	8716.7	8640.4
65°	1828.0	1803.2	1887.1	2075.8	2613.3	6543.7	12195.3	13283.7	13007.3	9705.9	9523.0
67.5°	1315.2	1311.4	1408.6	1751.7	1856.6	3768.4	11051.7	15266.1	15098.3	10880.1	10060.5
69°	1088.4	1090.3	1183.7	1568.7	1772.7	2573.3	9509.6	15607.3	15576.8	11486.3	9959.5
70°	949.2	956.9	1065.5	1460.1	1738.4	2115.8	8198.2	15271.8	15241.3	11604.4	9625.9
72.5°	585.2	590.9	733.9	1170.4	1652.6	1726.9	4902.5	12494.6	12599.4	11063.1	8293.5
75°	280.2	282.1	385.0	846.3	1593.5	1637.4	2626.6	9219.9	9441.0	8932.1	6480.8
77.5°	148.7	148.7	184.9	449.8	1290.4	1540.1	1559.2	6503.7	6686.7	5647.8	3684.5
80°	74.3	76.2	112.5	234.5	800.6	1509.6	1218.0	3878.9	3978.1	2304.5	1147.5
82.5°	28.6	30.5	53.4	141.1	415.5	1275.2	1069.3	1908.0	1883.2	539.4	280.2
85°	3.8	3.8	19.1	83.9	177.3	562.3	882.5	796.8	770.1	118.2	135.3
87.5°	0.0	0.0	3.8	24.8	53.4	163.9	341.2	219.2	244.0	32.4	66.7
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°	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5
2.5°	3617.8	3577.8	3516.8	3457.7	3394.8	3318.5	3234.7	3204.2	3150.8	3147.0	3177.5
5°	3614.0	3549.2	3442.4	3316.6	3137.5	3002.1	2855.4	2748.6	2666.7	2613.3	2626.6
7.5°	3633.1	3554.9	3370.0	3099.3	2868.7	2599.9	2373.1	2216.8	2073.9	2003.3	1995.7
10°	3602.6	3497.7	3227.1	2847.7	2508.4	2132.9	1801.3	1591.6	1378.1	1300.0	1303.8
12.5°	3619.7	3472.9	3072.7	2588.5	2121.5	1633.5	1237.1	951.2	751.0	686.2	678.6
15°	3631.2	3419.6	2924.0	2277.8	1692.6	1113.2	716.7	539.4	476.5	465.1	463.2
17.5°	3587.3	3354.8	2714.3	1970.9	1254.2	676.7	476.5	440.3	428.9	421.3	417.4
20°	3585.4	3316.6	2533.2	1656.4	836.8	461.3	411.7	398.4	381.2	375.5	375.5
22.5°	3553.0	3236.6	2315.9	1311.4	533.7	396.5	369.8	348.8	329.8	322.1	320.2
25°	3543.5	3143.2	2112.0	985.5	406.0	354.5	327.9	297.4	274.5	263.0	257.3
27.5°	3516.8	3063.1	1906.1	693.8	354.5	316.4	282.1	249.7	223.0	205.9	204.0
30°	3421.5	2979.3	1677.4	480.3	322.1	280.2	242.1	204.0	177.3	165.8	162.0
32.5°	3381.4	2901.1	1427.7	369.8	293.5	247.8	204.0	169.6	148.7	137.2	135.3
35°	3333.8	2786.7	1185.6	322.1	266.9	215.4	171.6	143.0	125.8	116.3	116.3
37.5°	3339.5	2695.2	958.8	291.6	238.3	184.9	146.8	122.0	106.7	97.2	97.2
40°	3322.4	2622.8	745.3	265.0	211.6	158.2	123.9	102.9	89.6	80.1	78.2
42.5°	3400.5	2603.8	562.3	242.1	184.9	135.3	106.7	87.7	74.3	62.9	62.9
45°	3532.0	2634.3	438.4	221.1	158.2	116.3	91.5	72.4	59.1	51.5	49.6
47.5°	3882.8	2754.3	343.1	204.0	135.3	101.0	76.2	59.1	47.7	40.0	38.1
50°	4391.7	3023.1	291.6	179.2	114.4	85.8	62.9	45.7	38.1	30.5	28.6
52.5°	5116.0	3474.8	265.0	158.2	95.3	70.5	49.6	36.2	28.6	22.9	21.0
55°	5905.1	4039.1	240.2	133.4	80.1	57.2	40.0	28.6	21.0	15.2	13.3
57.5°	6520.8	4527.0	219.2	110.6	64.8	45.7	30.5	21.0	15.2	9.5	7.6
60°	7193.7	4870.1	192.5	87.7	53.4	34.3	22.9	15.2	11.4	5.7	5.7
62.5°	7887.5	5272.3	158.2	68.6	41.9	26.7	17.2	11.4	7.6	1.9	1.9
65°	8852.0	5586.8	122.0	53.4	32.4	19.1	13.3	9.5	3.8	0.0	0.0
67.5°	9124.6	5432.4	89.6	41.9	22.9	13.3	9.5	5.7	1.9	0.0	0.0
69°	8852.0	4893.0	78.2	36.2	19.1	11.4	7.6	3.8	1.9	0.0	0.0
70°	8354.5	4473.7	68.6	30.5	17.2	11.4	5.7	3.8	1.9	0.0	0.0
72.5°	6987.8	3431.0	53.4	22.9	13.3	9.5	5.7	3.8	0.0	0.0	0.0
75°	5125.5	2119.6	40.0	17.2	11.4	7.6	5.7	3.8	0.0	0.0	0.0
77.5°	2746.7	773.9	28.6	11.4	7.6	5.7	5.7	3.8	0.0	0.0	0.0
80°	752.9	228.7	21.0	7.6	5.7	3.8	3.8	1.9	0.0	0.0	0.0
82.5°	205.9	59.1	13.3	7.6	5.7	3.8	1.9	0.0	0.0	0.0	0.0
85°	110.6	22.9	7.6	5.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	57.2	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)