

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: P483875

Luminaire Tested: **IFLD-L-SA7A-722-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483875
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

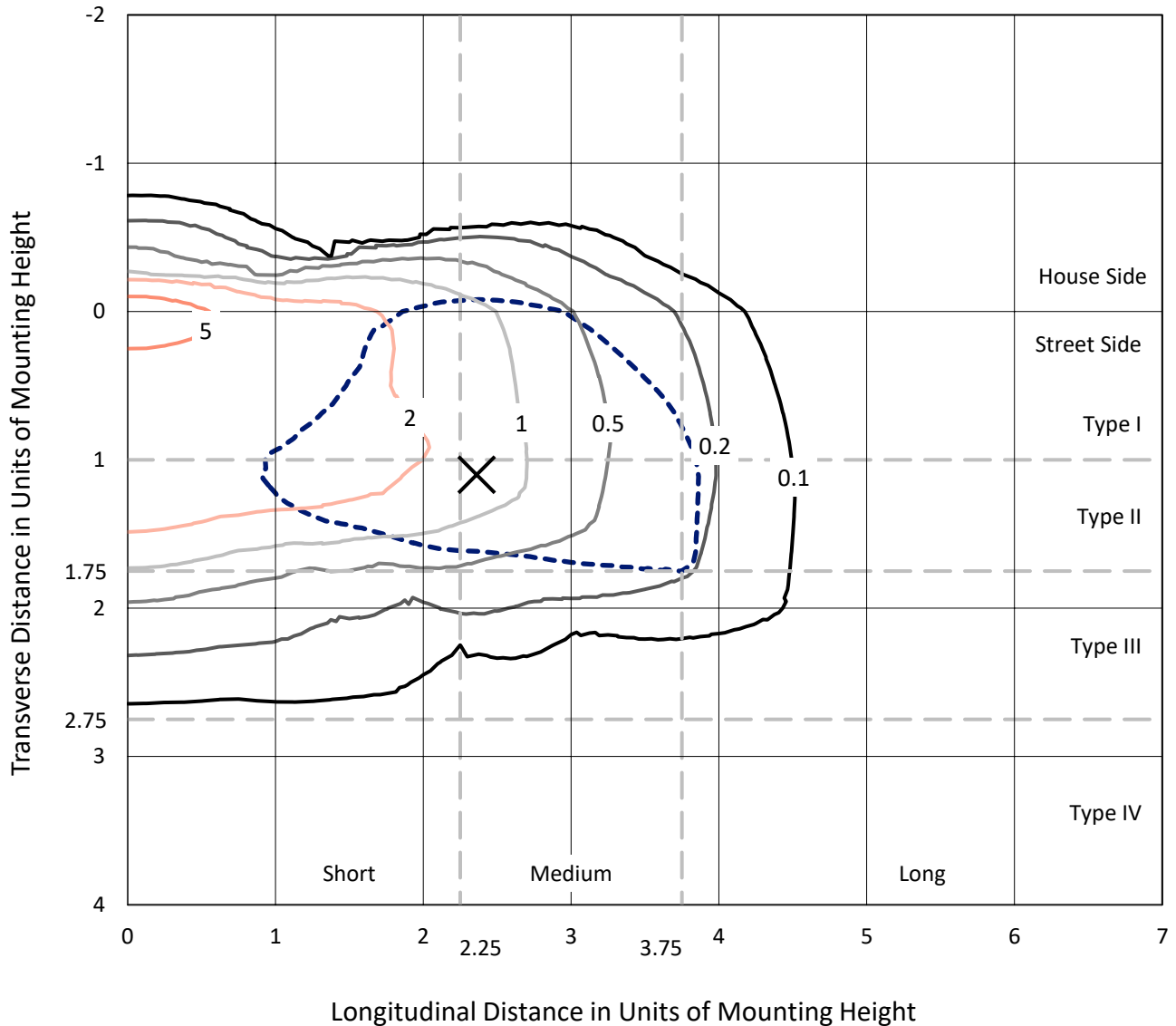
Lumens per Lamp: N/A
Luminaire Lumens: 18976.3 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 217.6
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

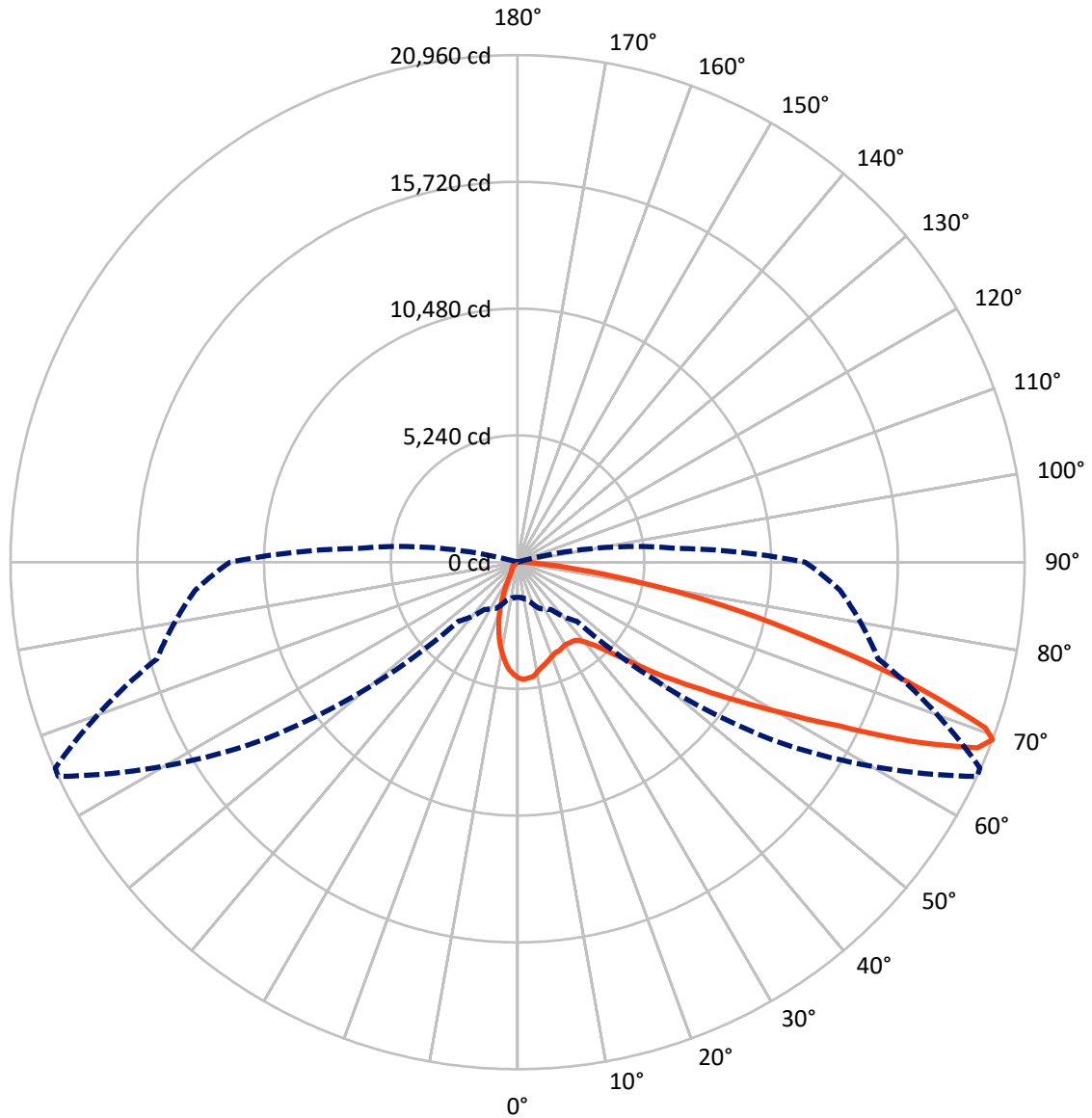
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	2301.9	0.0	2301.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	16674.3	0.0	16674.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	18976.3	0.0	18976.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.5	2.1
10°-20°	856.6	4.5
20°-30°	1192.6	6.3
30°-40°	1690.1	8.9
40°-50°	2663.5	14.0
50°-60°	4321.9	22.8
60°-70°	4826.7	25.4
70°-80°	2718.0	14.3
80°-90°	315.4	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°	18976.3	100.0
0°-180°	18976.3	100.0



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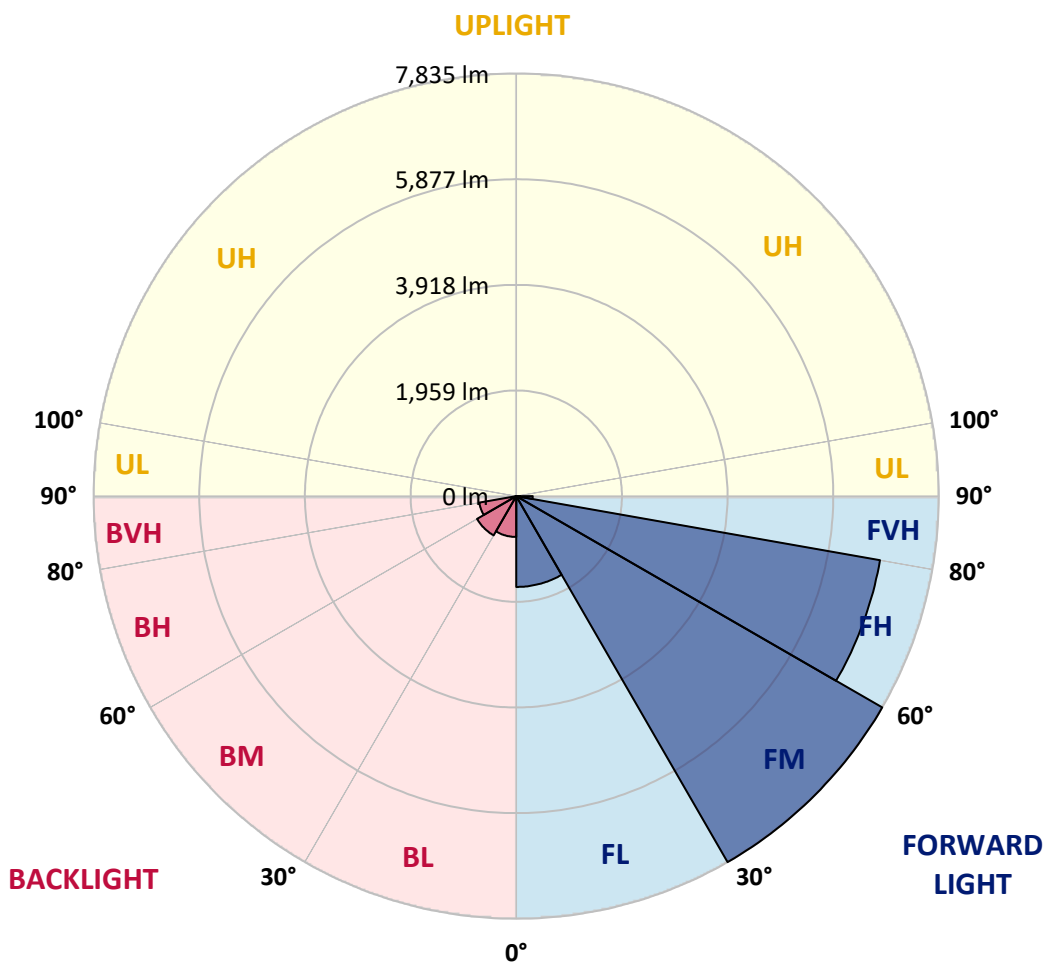
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1684.0	8.9			
FM (30°-60°)	7835.5	41.3			
FH (60°-80°)	6848.2	36.1			G3/7500
FVH (80°-90°)	306.7	1.6			G3/500
BL (0°-30°)	756.8	4.0	B2/1000		
BM (30°-60°)	840.0	4.4	B1/1000		
BH (60°-80°)	696.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	8.7	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°	4784.4	4784.4	4784.4	4784.4	4784.4	4784.4	4784.4	4784.4	4784.4	4784.4	4784.4
2.5°	4607.7	4643.6	4653.8	4689.6	4707.6	4784.4	4827.9	4853.5	4840.7	4868.8	4871.4
5°	4280.1	4259.6	4313.3	4351.7	4433.7	4566.8	4702.4	4807.4	4856.0	4902.1	4894.4
7.5°	3929.4	3919.1	3972.9	4059.9	4134.2	4295.4	4513.0	4771.6	4761.3	4874.0	4907.2
10°	3688.7	3699.0	3716.9	3803.9	3914.0	4077.8	4349.2	4589.8	4643.6	4881.6	4948.2
12.5°	3468.6	3486.5	3519.8	3609.4	3737.4	3906.3	4170.0	4451.6	4533.5	4838.1	4971.2
15°	3396.9	3356.0	3422.5	3489.1	3622.2	3773.2	3995.9	4346.6	4382.5	4786.9	5009.6
17.5°	3338.0	3312.4	3343.2	3396.9	3537.7	3660.6	3870.5	4234.0	4300.5	4766.4	5004.5
20°	3356.0	3332.9	3345.7	3386.7	3450.7	3565.9	3760.4	4126.5	4198.2	4671.7	4996.8
22.5°	3407.2	3425.1	3402.0	3412.3	3432.8	3491.6	3701.5	4049.7	4111.1	4653.8	5040.3
25°	3637.5	3606.8	3576.1	3563.3	3443.0	3468.6	3683.6	4044.6	4088.1	4589.8	5004.5
27.5°	3878.2	3852.6	3839.8	3765.5	3601.7	3524.9	3686.2	3972.9	4031.8	4564.2	4961.0
30°	4170.0	4203.3	4152.1	4062.5	3834.7	3645.2	3714.3	3937.0	4019.0	4466.9	4932.8
32.5°	4477.2	4495.1	4520.7	4454.1	4159.8	3827.0	3798.8	3970.3	3975.4	4466.9	4868.8
35°	4825.3	4799.7	4866.3	4871.4	4612.8	4149.5	3960.1	3993.4	4047.1	4446.5	4845.8
37.5°	5124.8	5168.3	5245.1	5368.0	5101.8	4605.2	4211.0	4100.9	4123.9	4541.2	4863.7
40°	5452.5	5496.0	5670.1	5792.9	5641.9	5117.1	4592.4	4351.7	4369.7	4682.0	4955.9
42.5°	5813.4	5897.9	6105.2	6320.3	6279.3	5767.3	5083.9	4720.4	4712.7	5032.7	5145.3
45°	6302.3	6415.0	6640.2	6888.6	6924.4	6512.3	5739.2	5270.7	5296.3	5490.9	5537.0
47.5°	6983.3	6978.1	7198.3	7474.8	7682.1	7285.3	6522.5	6010.5	6008.0	6215.3	6118.0
50°	7641.1	7643.7	7702.6	8022.6	8560.1	8357.9	7492.7	6993.5	6965.3	7067.7	6911.6
52.5°	7945.8	7909.9	7866.4	8253.0	9235.9	9709.5	8721.4	8107.0	8084.0	8022.6	7981.6
55°	7625.8	7638.6	7636.0	8037.9	9591.8	11135.3	10298.3	9333.2	9294.8	9102.8	9159.1
57.5°	6599.3	6558.3	6647.9	7275.1	9184.7	12108.1	12553.5	10879.4	10779.5	10142.1	10014.1
60°	4912.4	4925.1	4999.4	5739.2	8173.6	12312.9	14711.5	12694.3	12264.2	10874.2	10697.6
62.5°	3430.2	3404.6	3432.8	3847.5	5844.1	11493.7	16170.6	14900.9	14486.2	11706.2	11603.8
65°	2454.9	2421.6	2534.3	2787.7	3509.6	8788.0	16377.9	17839.6	17468.4	13034.8	12789.0
67.5°	1766.3	1761.2	1891.7	2352.5	2493.3	5060.8	14842.0	20501.8	20276.6	14611.6	13510.9
69°	1461.7	1464.2	1589.7	2106.8	2380.7	3455.8	12771.1	20960.0	20919.1	15425.6	13375.2
70°	1274.8	1285.0	1431.0	1960.8	2334.6	2841.4	11009.9	20509.5	20468.6	15584.4	12927.2
72.5°	785.9	793.6	985.5	1571.7	2219.4	2319.2	6583.9	16779.8	16920.6	14857.4	11137.9
75°	376.3	378.9	517.1	1136.6	2140.0	2198.9	3527.5	12382.0	12678.9	11995.5	8703.5
77.5°	199.7	199.7	248.3	604.1	1733.0	2068.4	2094.0	8734.2	8979.9	7584.8	4948.2
80°	99.8	102.4	151.0	314.9	1075.1	2027.4	1635.7	5209.3	5342.4	3094.9	1541.0
82.5°	38.4	41.0	71.7	189.4	558.0	1712.5	1436.1	2562.4	2529.1	724.4	376.3
85°	5.1	5.1	25.6	112.6	238.1	755.2	1185.2	1070.0	1034.2	158.7	181.7
87.5°	0.0	0.0	5.1	33.3	71.7	220.1	458.2	294.4	327.7	43.5	89.6
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°	4784.4	4784.4	4784.4	4784.4	4784.4	4784.4	4784.4	4784.4	4784.4	4784.4	4784.4
2.5°	4858.6	4804.8	4722.9	4643.6	4559.1	4456.7	4344.1	4303.1	4231.4	4226.3	4267.3
5°	4853.5	4766.4	4623.1	4454.1	4213.5	4031.8	3834.7	3691.3	3581.2	3509.6	3527.5
7.5°	4879.1	4774.1	4525.8	4162.3	3852.6	3491.6	3187.0	2977.1	2785.1	2690.4	2680.2
10°	4838.1	4697.3	4333.8	3824.4	3368.8	2864.5	2419.1	2137.5	1850.8	1745.8	1750.9
12.5°	4861.2	4664.0	4126.5	3476.3	2849.1	2193.8	1661.3	1277.4	1008.6	921.5	911.3
15°	4876.5	4592.4	3926.8	3059.0	2273.1	1495.0	962.5	724.4	640.0	624.6	622.0
17.5°	4817.6	4505.3	3645.2	2646.9	1684.4	908.7	640.0	591.3	576.0	565.7	560.6
20°	4815.1	4454.1	3402.0	2224.5	1123.8	619.5	552.9	535.0	512.0	504.3	504.3
22.5°	4771.6	4346.6	3110.2	1761.2	716.8	532.4	496.6	468.5	442.9	432.6	430.1
25°	4758.8	4221.2	2836.3	1323.4	545.2	476.1	440.3	399.3	368.6	353.3	345.6
27.5°	4722.9	4113.7	2559.8	931.8	476.1	424.9	378.9	335.3	299.5	276.5	273.9
30°	4594.9	4001.0	2252.7	645.1	432.6	376.3	325.1	273.9	238.1	222.7	217.6
32.5°	4541.2	3896.1	1917.3	496.6	394.2	332.8	273.9	227.8	199.7	184.3	181.7
35°	4477.2	3742.5	1592.2	432.6	358.4	289.3	230.4	192.0	169.0	156.2	156.2
37.5°	4484.9	3619.6	1287.6	391.7	320.0	248.3	197.1	163.8	143.4	130.6	130.6
40°	4461.8	3522.4	1000.9	355.8	284.1	212.5	166.4	138.2	120.3	107.5	105.0
42.5°	4566.8	3496.8	755.2	325.1	248.3	181.7	143.4	117.8	99.8	84.5	84.5
45°	4743.4	3537.7	588.8	296.9	212.5	156.2	122.9	97.3	79.4	69.1	66.6
47.5°	5214.4	3699.0	460.8	273.9	181.7	135.7	102.4	79.4	64.0	53.8	51.2
50°	5897.9	4059.9	391.7	240.6	153.6	115.2	84.5	61.4	51.2	41.0	38.4
52.5°	6870.6	4666.6	355.8	212.5	128.0	94.7	66.6	48.6	38.4	30.7	28.2
55°	7930.4	5424.3	322.5	179.2	107.5	76.8	53.8	38.4	28.2	20.5	17.9
57.5°	8757.2	6079.6	294.4	148.5	87.0	61.4	41.0	28.2	20.5	12.8	10.2
60°	9660.9	6540.4	258.5	117.8	71.7	46.1	30.7	20.5	15.4	7.7	7.7
62.5°	10592.7	7080.5	212.5	92.2	56.3	35.8	23.0	15.4	10.2	2.6	2.6
65°	11887.9	7502.9	163.8	71.7	43.5	25.6	17.9	12.8	5.1	0.0	0.0
67.5°	12254.0	7295.6	120.3	56.3	30.7	17.9	12.8	7.7	2.6	0.0	0.0
69°	11887.9	6571.1	105.0	48.6	25.6	15.4	10.2	5.1	2.6	0.0	0.0
70°	11219.8	6008.0	92.2	41.0	23.0	15.4	7.7	5.1	2.6	0.0	0.0
72.5°	9384.4	4607.7	71.7	30.7	17.9	12.8	7.7	5.1	0.0	0.0	0.0
75°	6883.4	2846.6	53.8	23.0	15.4	10.2	7.7	5.1	0.0	0.0	0.0
77.5°	3688.7	1039.3	38.4	15.4	10.2	7.7	7.7	5.1	0.0	0.0	0.0
80°	1011.1	307.2	28.2	10.2	7.7	5.1	5.1	2.6	0.0	0.0	0.0
82.5°	276.5	79.4	17.9	10.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0
85°	148.5	30.7	10.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	76.8	10.2	7.7	5.1	5.1	2.6	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)