

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: P483554

Luminaire Tested: **IFLD-S-SA6B-730-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483554
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-730-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

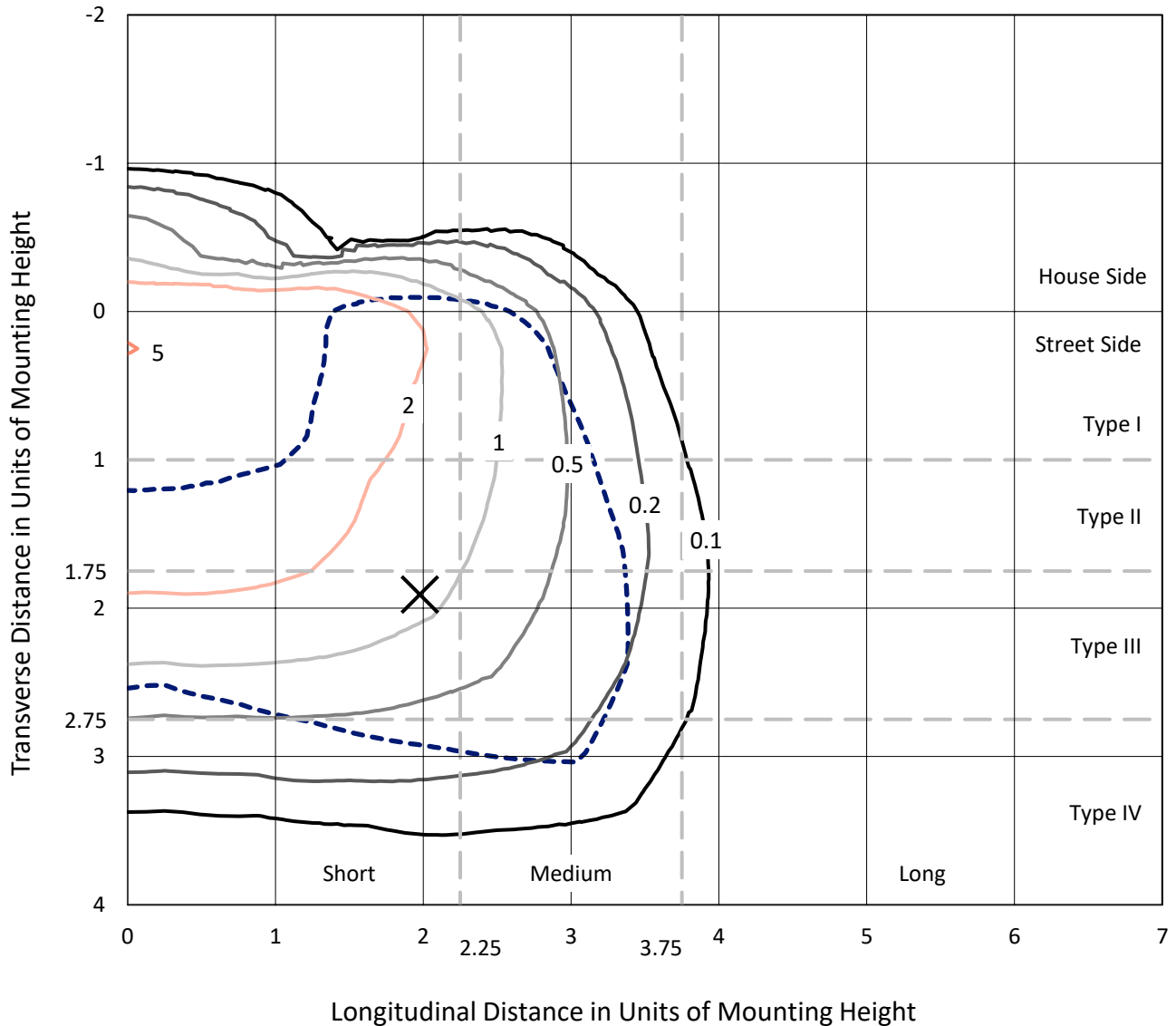
Lumens per Lamp: N/A
Luminaire Lumens: 22426.9 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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

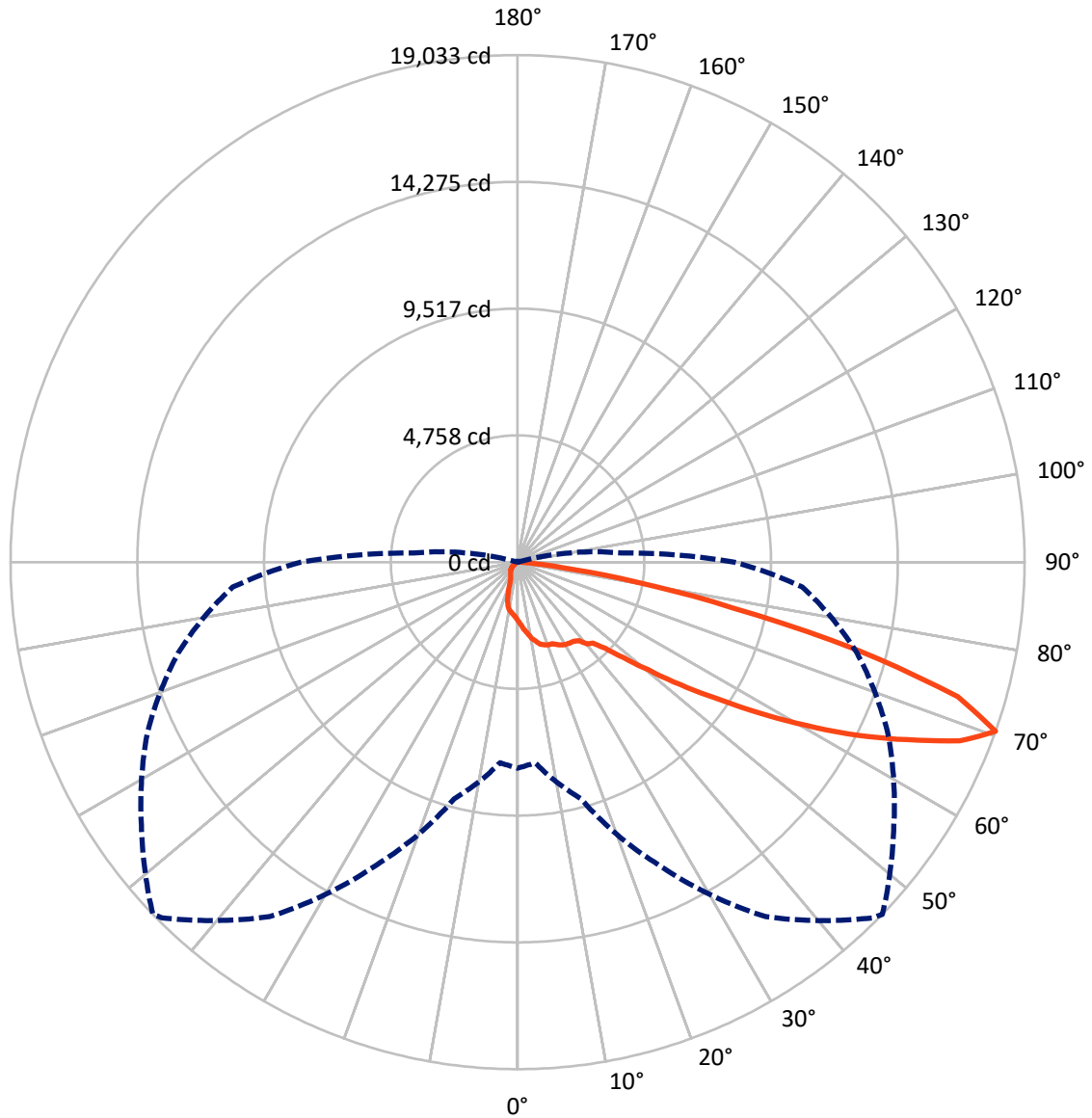
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2231.5	0.0	2231.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	20195.4	0.0	20195.4
	% Fixture	90.0	0.0	90.0
Total	Lumens	22426.9	0.0	22426.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	1.0
10°-20°	662.9	3.0
20°-30°	1061.9	4.7
30°-40°	1515.7	6.8
40°-50°	2617.3	11.7
50°-60°	5011.0	22.3
60°-70°	7420.5	33.1
70°-80°	3675.3	16.4
80°-90°	242.9	1.1
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°	22426.9	100.0
0°-180°	22426.9	100.0

Coefficient of Utilization



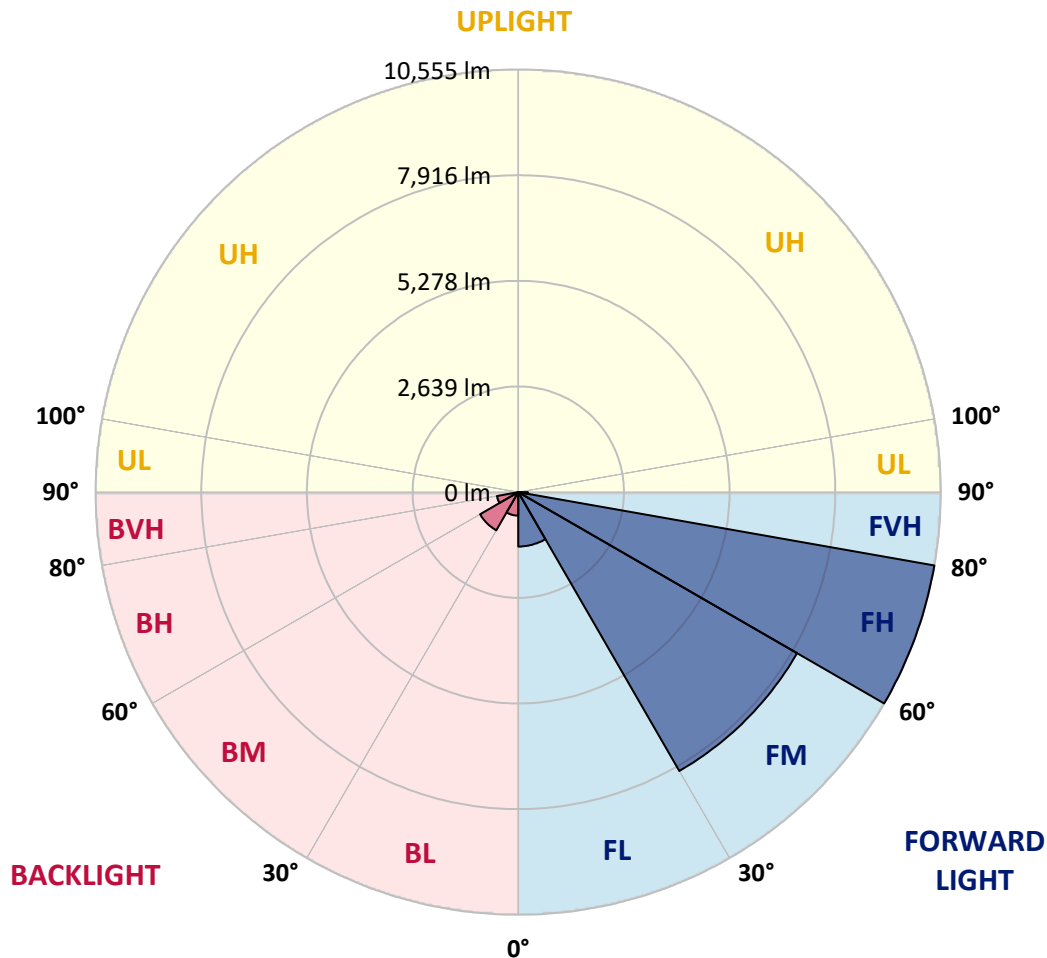
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1358.1	6.1			
FM (30°-60°)	8042.2	35.9			
FH (60°-80°)	10555.3	47.1			G4/12000
FVH (80°-90°)	239.8	1.1			G3/500
BL (0°-30°)	586.3	2.6	B2/1000		
BM (30°-60°)	1101.7	4.9	B2/2500		
BH (60°-80°)	540.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2201.6	2201.6	2201.6	2201.6	2201.6	2201.6	2201.6	2201.6	2201.6	2201.6	2201.6
2.5°	2456.7	2440.5	2414.7	2405.0	2379.2	2366.3	2346.9	2337.2	2301.7	2266.2	2243.6
5°	2756.9	2718.1	2731.0	2692.3	2608.4	2540.6	2537.4	2463.1	2382.4	2317.8	2230.7
7.5°	3060.3	3028.0	2979.6	2924.7	2831.1	2731.0	2702.0	2631.0	2518.0	2405.0	2288.8
10°	3289.5	3266.9	3225.0	3147.5	3018.4	2905.4	2908.6	2789.2	2669.7	2540.6	2382.4
12.5°	3431.6	3441.2	3379.9	3302.4	3189.4	3047.4	3044.2	2963.5	2827.9	2692.3	2505.1
15°	3573.6	3609.1	3515.5	3425.1	3279.8	3176.5	3195.9	3099.1	2966.7	2811.8	2605.1
17.5°	3596.2	3605.9	3586.5	3454.2	3347.6	3260.5	3263.7	3199.1	3099.1	2931.2	2753.6
20°	3557.5	3551.0	3528.4	3431.6	3360.5	3308.9	3312.1	3296.0	3241.1	3105.5	2863.4
22.5°	3444.5	3444.5	3415.4	3350.9	3318.6	3367.0	3328.3	3389.6	3331.5	3250.8	3050.6
25°	3354.1	3389.6	3373.5	3331.5	3344.4	3409.0	3428.3	3486.4	3476.8	3376.7	3179.8
27.5°	3450.9	3409.0	3418.7	3370.2	3418.7	3515.5	3525.2	3567.1	3563.9	3483.2	3296.0
30°	3515.5	3554.2	3480.0	3373.5	3425.1	3589.7	3583.3	3638.2	3664.0	3567.1	3405.7
32.5°	3722.1	3689.8	3628.5	3486.4	3492.9	3586.5	3615.6	3686.6	3702.7	3644.6	3512.3
35°	4145.0	4096.6	3828.6	3615.6	3583.3	3628.5	3647.9	3786.7	3815.7	3751.2	3625.3
37.5°	4797.1	4687.3	4364.5	3893.2	3747.9	3738.2	3738.2	3922.2	4032.0	3883.5	3793.1
40°	5730.0	5575.1	5226.4	4406.5	3964.2	4003.0	4041.7	4141.8	4128.9	4032.0	4012.6
42.5°	6918.0	6798.6	6420.9	5268.4	4377.4	4183.7	4151.4	4287.0	4490.4	4451.7	4438.8
45°	7909.1	7915.5	7673.4	6449.9	5090.9	4600.2	4622.8	4726.1	5068.3	5039.2	5036.0
47.5°	8632.2	8541.8	8506.3	7589.5	6130.3	5391.1	5358.8	5429.8	5875.3	6059.3	6143.2
50°	9290.7	9229.4	9145.5	8696.7	7379.6	6382.1	6349.8	6356.3	7037.4	7295.7	7502.3
52.5°	10107.5	10184.9	9907.3	9632.9	8997.0	7670.2	7634.7	7508.8	8354.5	8709.7	8955.0
55°	11114.7	10969.4	10656.2	10798.3	10543.3	9061.5	8997.0	8848.5	9855.7	10004.2	10262.4
57.5°	11337.4	11227.6	11550.5	12054.1	12299.4	10695.0	10669.2	10401.2	11117.9	10982.3	11711.9
60°	11892.6	11921.7	12370.4	13371.2	13797.3	12580.2	12454.3	11983.0	12341.4	12367.2	13145.2
62.5°	12464.0	12396.2	13400.2	14362.2	15017.5	14365.4	14323.5	13387.3	13794.0	13464.8	14494.6
65°	12044.4	12147.7	13584.2	15195.1	16599.3	16111.9	16076.4	14739.9	14962.6	14552.7	15043.4
67.5°	10552.9	10343.1	12354.3	14814.2	17412.8	17942.3	17903.5	16215.2	15621.2	14546.2	13903.8
70°	7734.7	7554.0	9193.9	12544.7	16247.5	18878.4	19033.4	17241.8	15353.3	13190.4	10727.3
72.5°	3789.9	3793.1	5152.2	8506.3	12854.6	17206.2	17283.7	15808.4	13190.4	9723.3	6075.4
75°	1120.2	1133.1	1907.9	4170.8	8309.4	13067.7	13154.9	11999.2	9142.2	5023.1	2072.5
77.5°	410.0	410.0	632.7	1565.7	4145.0	8248.0	8241.6	7366.7	4629.2	1701.3	484.2
80°	213.1	222.7	329.3	639.2	1794.9	4296.7	4458.1	3605.9	1759.4	716.7	142.0
82.5°	87.2	96.8	180.8	329.3	861.9	1507.6	1649.6	1413.9	765.1	500.4	64.6
85°	25.8	29.1	87.2	184.0	339.0	377.7	419.7	474.5	481.0	387.4	29.1
87.5°	3.2	3.2	35.5	61.3	74.2	80.7	93.6	93.6	245.3	271.2	16.1
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°	2201.6	2201.6	2201.6	2201.6	2201.6	2201.6	2201.6	2201.6	2201.6	2201.6	2201.6
2.5°	2217.8	2201.6	2175.8	2117.7	2104.8	2062.8	2059.6	2020.8	2033.8	2007.9	1998.2
5°	2201.6	2166.1	2095.1	2049.9	2004.7	1975.7	1956.3	1940.1	1936.9	1924.0	1917.5
7.5°	2230.7	2182.3	2072.5	2001.5	1924.0	1898.2	1856.2	1853.0	1830.4	1807.8	1807.8
10°	2327.5	2240.4	2120.9	2001.5	1901.4	1817.5	1720.6	1649.6	1623.8	1565.7	1572.1
12.5°	2405.0	2327.5	2153.2	2030.5	1878.8	1688.3	1475.3	1310.6	1233.2	1158.9	1188.0
15°	2514.8	2401.8	2214.5	2037.0	1791.6	1462.4	1113.7	929.7	858.7	842.6	839.3
17.5°	2634.2	2514.8	2292.0	2020.8	1614.1	1129.9	820.0	713.4	726.3	745.7	742.5
20°	2766.6	2621.3	2350.1	1966.0	1333.2	820.0	671.5	668.2	687.6	716.7	723.1
22.5°	2905.4	2779.5	2421.1	1801.3	994.3	658.6	645.6	645.6	658.6	694.1	687.6
25°	3060.3	2892.5	2456.7	1546.3	713.4	606.9	613.4	626.3	632.7	661.8	665.0
27.5°	3179.8	3018.4	2466.3	1239.6	581.1	561.7	577.8	594.0	603.7	626.3	636.0
30°	3289.5	3176.5	2414.7	923.3	532.7	523.0	529.4	552.0	571.4	590.8	590.8
32.5°	3428.3	3266.9	2295.2	655.3	503.6	487.5	484.2	493.9	516.5	539.1	539.1
35°	3570.4	3418.7	2104.8	526.2	477.8	455.2	442.3	432.6	442.3	458.4	471.3
37.5°	3777.0	3647.9	1865.9	484.2	458.4	426.1	400.3	377.7	361.6	358.3	368.0
40°	4070.7	3906.1	1559.2	455.2	435.8	397.1	358.3	319.6	284.1	261.5	264.7
42.5°	4516.2	4287.0	1226.7	439.0	419.7	364.8	309.9	255.0	209.8	187.2	187.2
45°	5152.2	4790.6	900.7	422.9	400.3	326.0	255.0	190.5	145.3	132.4	135.6
47.5°	6111.0	5397.5	645.6	397.1	374.5	284.1	200.1	135.6	106.5	100.1	103.3
50°	7363.5	6117.4	503.6	368.0	342.2	238.9	148.5	100.1	83.9	80.7	83.9
52.5°	8677.4	6843.8	442.3	342.2	293.8	190.5	109.8	80.7	71.0	67.8	71.0
55°	9800.8	7311.8	384.2	303.4	235.7	142.0	87.2	71.0	61.3	51.7	51.7
57.5°	10937.1	7547.5	303.4	251.8	174.3	106.5	74.2	61.3	51.7	42.0	38.7
60°	11860.4	7715.4	216.3	187.2	122.7	83.9	64.6	54.9	42.0	32.3	29.1
62.5°	12467.3	7234.4	158.2	142.0	90.4	71.0	54.9	45.2	32.3	22.6	22.6
65°	12167.0	6569.4	122.7	100.1	67.8	54.9	45.2	32.3	22.6	12.9	9.7
67.5°	10917.7	5352.3	100.1	74.2	51.7	42.0	35.5	25.8	12.9	3.2	3.2
70°	8144.7	3922.2	80.7	54.9	42.0	32.3	25.8	16.1	6.5	3.2	0.0
72.5°	4454.9	2146.7	64.6	45.2	32.3	25.8	19.4	12.9	6.5	0.0	0.0
75°	1472.1	571.4	48.4	32.3	19.4	16.1	12.9	9.7	3.2	0.0	0.0
77.5°	355.1	148.5	38.7	29.1	16.1	9.7	6.5	3.2	3.2	0.0	0.0
80°	109.8	61.3	29.1	19.4	12.9	9.7	3.2	0.0	0.0	0.0	0.0
82.5°	45.2	29.1	12.9	12.9	9.7	3.2	0.0	0.0	0.0	0.0	0.0
85°	22.6	16.1	9.7	6.5	6.5	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	16.1	6.5	3.2	3.2	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)