

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: P483761

Luminaire Tested: **IFLD-L-SA7D-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483761
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

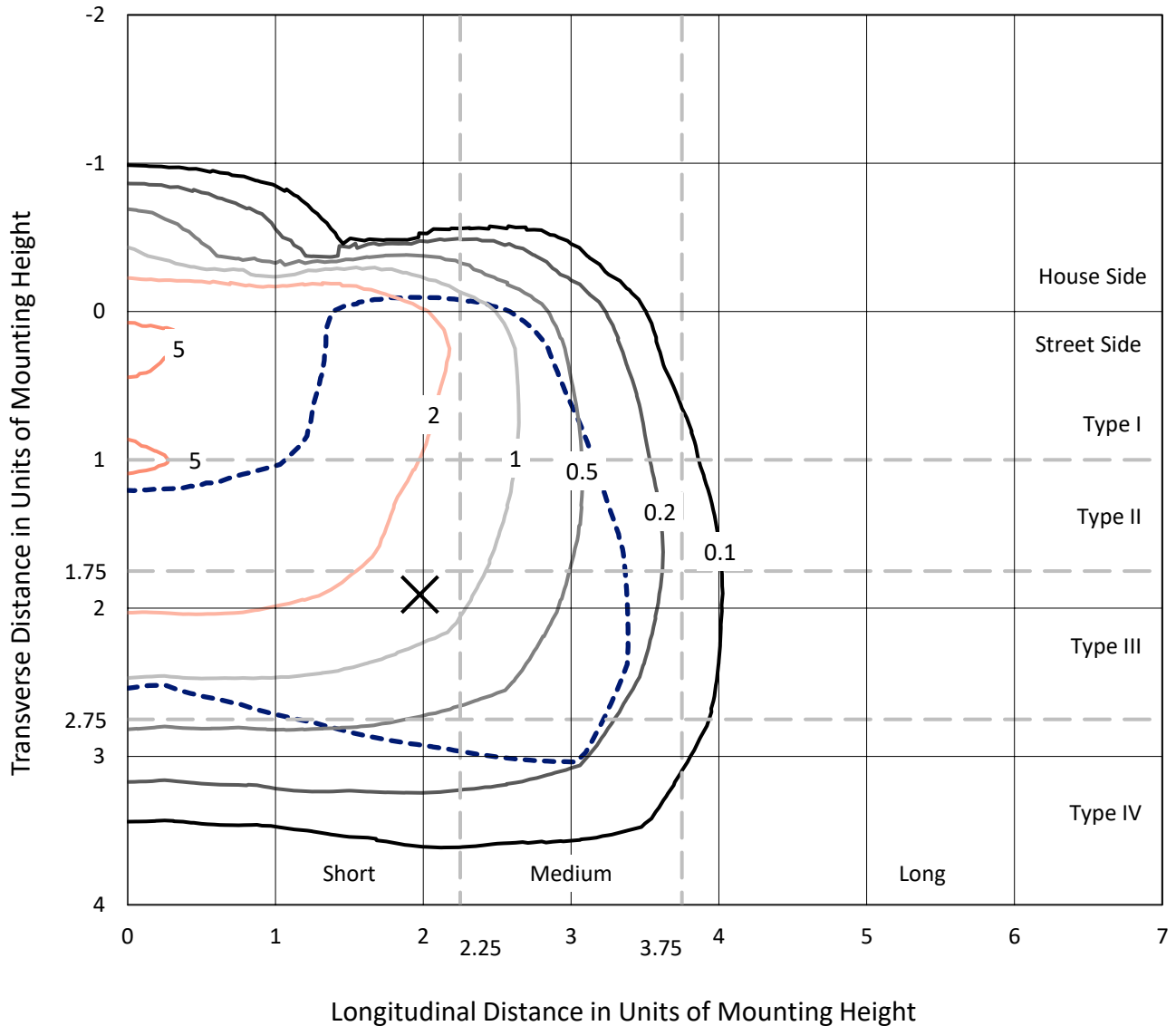
Lumens per Lamp: N/A
Luminaire Lumens: 26456.9 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6
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

REPORT NUMBER: P483761
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

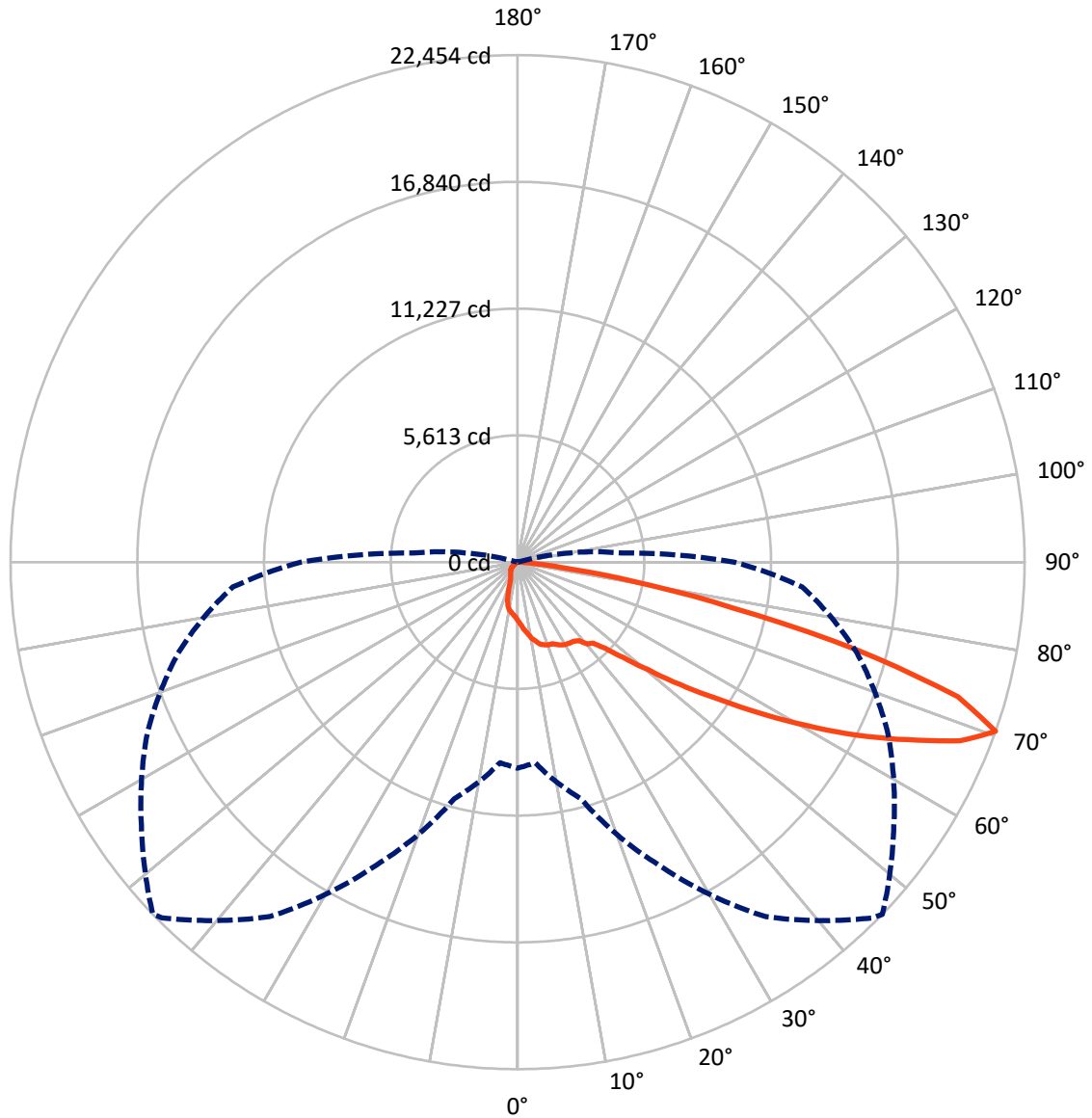
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P483761
CATALOG NUMBER: IFLD-L-SA7D-827-U-T4W-HSS

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	2632.5	0.0	2632.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	23824.4	0.0	23824.4
	% Fixture	90.0	0.0	90.0
Total	Lumens	26456.9	0.0	26456.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.0	1.0
10°-20°	782.1	3.0
20°-30°	1252.7	4.7
30°-40°	1788.1	6.8
40°-50°	3087.6	11.7
50°-60°	5911.4	22.3
60°-70°	8753.9	33.1
70°-80°	4335.7	16.4
80°-90°	286.5	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°	26456.9	100.0
0°-180°	26456.9	100.0

Coefficient of Utilization



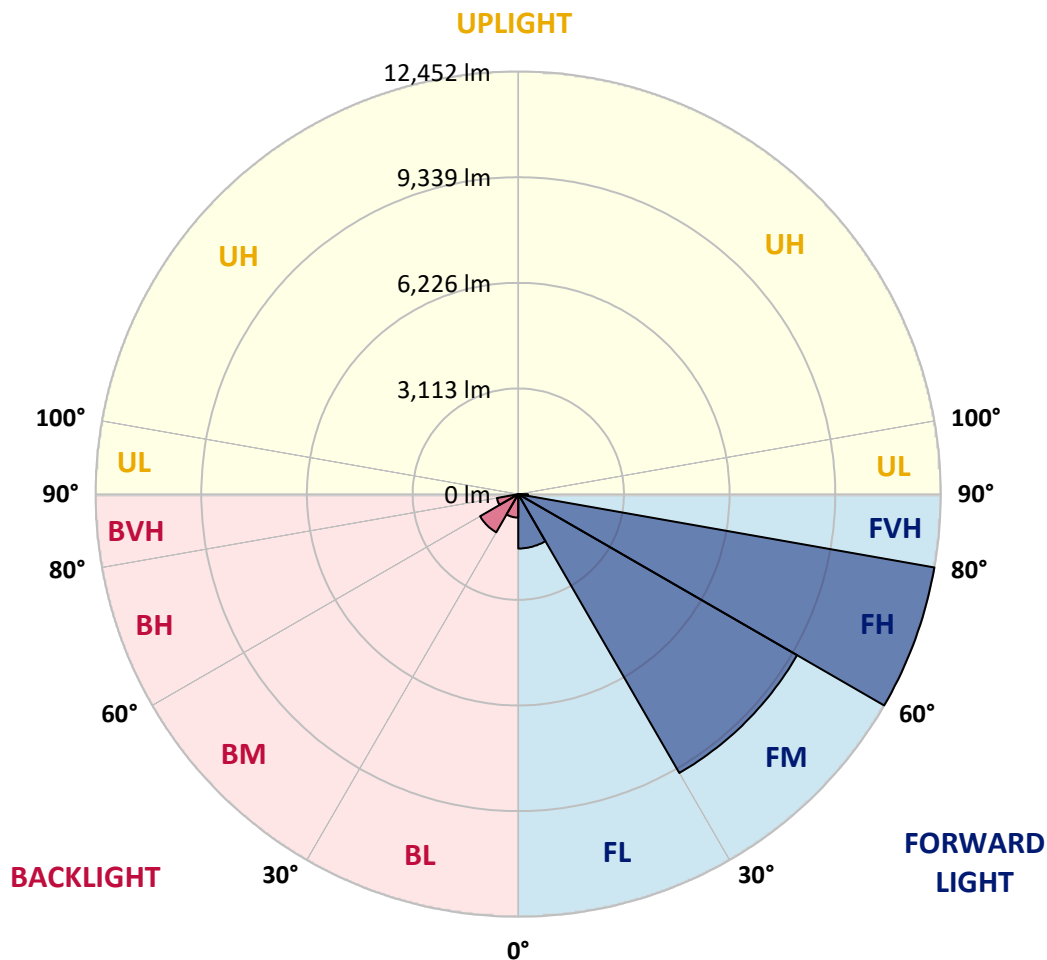
REPORT NUMBER: P483761
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1602.2	6.1			
FM (30°-60°)	9487.4	35.9			
FH (60°-80°)	12452.0	47.1			G5
FVH (80°-90°)	282.8	1.1			G3/500
BL (0°-30°)	691.6	2.6	B2/1000		
BM (30°-60°)	1299.7	4.9	B2/2500		
BH (60°-80°)	637.6	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.6	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-G5

Type IV Short





REPORT NUMBER: P483761

CATALOG NUMBER: IFLD-L-SA7D-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2
2.5°	2898.1	2879.1	2848.6	2837.2	2806.7	2791.5	2768.6	2757.2	2715.3	2673.4	2646.8
5°	3252.3	3206.6	3221.8	3176.1	3077.1	2997.1	2993.3	2905.7	2810.5	2734.3	2631.5
7.5°	3610.3	3572.2	3515.0	3450.3	3339.9	3221.8	3187.5	3103.7	2970.5	2837.2	2700.1
10°	3880.6	3854.0	3804.5	3713.1	3560.7	3427.5	3431.3	3290.4	3149.4	2997.1	2810.5
12.5°	4048.2	4059.6	3987.3	3895.9	3762.6	3595.0	3591.2	3496.0	3336.1	3176.1	2955.2
15°	4215.8	4257.7	4147.2	4040.6	3869.2	3747.3	3770.2	3655.9	3499.8	3317.0	3073.3
17.5°	4242.4	4253.8	4231.0	4074.9	3949.2	3846.4	3850.2	3774.0	3655.9	3457.9	3248.5
20°	4196.7	4189.1	4162.5	4048.2	3964.4	3903.5	3907.3	3888.3	3823.5	3663.6	3377.9
22.5°	4063.4	4063.4	4029.2	3953.0	3914.9	3972.0	3926.3	3998.7	3930.1	3834.9	3598.8
25°	3956.8	3998.7	3979.7	3930.1	3945.4	4021.5	4044.4	4112.9	4101.5	3983.5	3751.2
27.5°	4071.1	4021.5	4033.0	3975.8	4033.0	4147.2	4158.6	4208.2	4204.3	4109.1	3888.3
30°	4147.2	4192.9	4105.3	3979.7	4040.6	4234.8	4227.2	4291.9	4322.4	4208.2	4017.7
32.5°	4390.9	4352.9	4280.5	4112.9	4120.6	4231.0	4265.3	4349.1	4368.1	4299.5	4143.4
35°	4889.8	4832.7	4516.6	4265.3	4227.2	4280.5	4303.4	4467.1	4501.4	4425.2	4276.7
37.5°	5659.1	5529.6	5148.8	4592.8	4421.4	4410.0	4410.0	4627.1	4756.5	4581.4	4474.7
40°	6759.7	6576.9	6165.6	5198.3	4676.6	4722.3	4768.0	4886.0	4870.8	4756.5	4733.7
42.5°	8161.1	8020.2	7574.7	6215.1	5164.0	4935.5	4897.4	5057.4	5297.3	5251.6	5236.4
45°	9330.3	9337.9	9052.3	7608.9	6005.7	5426.8	5453.5	5575.3	5979.0	5944.7	5940.9
47.5°	10183.3	10076.7	10034.8	8953.3	7231.9	6359.8	6321.7	6405.5	6931.1	7148.1	7247.2
50°	10960.2	10887.9	10788.9	10259.5	8705.7	7529.0	7490.9	7498.5	8302.1	8606.7	8850.4
52.5°	11923.7	12015.1	11687.6	11363.9	10613.7	9048.5	9006.6	8858.1	9855.8	10274.7	10564.2
55°	13111.9	12940.5	12571.1	12738.7	12437.8	10689.8	10613.7	10438.5	11626.7	11801.9	12106.5
57.5°	13374.7	13245.2	13626.0	14220.1	14509.6	12616.8	12586.4	12270.3	13115.7	12955.8	13816.4
60°	14029.7	14064.0	14593.3	15773.9	16276.6	14840.9	14692.3	14136.3	14559.1	14589.5	15507.3
62.5°	14703.8	14623.8	15808.2	16943.0	17716.1	16946.8	16897.3	15792.9	16272.8	15884.3	17099.2
65°	14208.7	14330.6	16025.2	17925.6	19582.2	19007.1	18965.2	17388.6	17651.4	17167.7	17746.6
67.5°	12449.3	12201.7	14574.3	17476.2	20541.9	21166.4	21120.7	19129.0	18428.3	17160.1	16402.3
70°	9124.6	8911.4	10846.0	14799.0	19167.1	22270.8	22453.6	20340.0	18112.2	15560.6	12654.9
72.5°	4470.9	4474.7	6078.0	10034.8	15164.6	20298.1	20389.5	18649.2	15560.6	11470.5	7167.2
75°	1321.5	1336.7	2250.7	4920.3	9802.5	15415.9	15518.7	14155.4	10785.1	5925.7	2444.9
77.5°	483.7	483.7	746.4	1847.0	4889.8	9730.2	9722.5	8690.5	5461.1	2007.0	571.2
80°	251.3	262.8	388.4	754.0	2117.4	5068.8	5259.2	4253.8	2075.5	845.4	167.6
82.5°	102.8	114.2	213.3	388.4	1016.8	1778.5	1946.0	1668.0	902.6	590.3	76.2
85°	30.5	34.3	102.8	217.1	399.9	445.6	495.1	559.8	567.4	457.0	34.3
87.5°	3.8	3.8	41.9	72.4	87.6	95.2	110.4	110.4	289.4	319.9	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483761

CATALOG NUMBER: IFLD-L-SA7D-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2
2.5°	2616.3	2597.2	2566.8	2498.2	2483.0	2433.5	2429.7	2384.0	2399.2	2368.8	2357.3
5°	2597.2	2555.4	2471.6	2418.3	2364.9	2330.7	2307.8	2288.8	2285.0	2269.7	2262.1
7.5°	2631.5	2574.4	2444.9	2361.1	2269.7	2239.3	2189.8	2186.0	2159.3	2132.6	2132.6
10°	2745.8	2642.9	2502.0	2361.1	2243.1	2144.1	2029.8	1946.0	1915.6	1847.0	1854.6
12.5°	2837.2	2745.8	2540.1	2395.4	2216.4	1991.7	1740.4	1546.2	1454.8	1367.2	1401.4
15°	2966.7	2833.4	2612.5	2403.0	2113.6	1725.2	1313.9	1096.8	1013.0	994.0	990.2
17.5°	3107.6	2966.7	2703.9	2384.0	1904.1	1332.9	967.3	841.6	856.9	879.7	875.9
20°	3263.7	3092.3	2772.4	2319.2	1572.8	967.3	792.1	788.3	811.2	845.4	853.1
22.5°	3427.5	3278.9	2856.2	2125.0	1173.0	776.9	761.7	761.7	776.9	818.8	811.2
25°	3610.3	3412.2	2898.1	1824.2	841.6	716.0	723.6	738.8	746.4	780.7	784.5
27.5°	3751.2	3560.7	2909.5	1462.4	685.5	662.6	681.7	700.7	712.1	738.8	750.2
30°	3880.6	3747.3	2848.6	1089.2	628.4	616.9	624.6	651.2	674.1	696.9	696.9
32.5°	4044.4	3854.0	2707.7	773.1	594.1	575.1	571.2	582.7	609.3	636.0	636.0
35°	4212.0	4033.0	2483.0	620.7	563.6	537.0	521.7	510.3	521.7	540.8	556.0
37.5°	4455.7	4303.4	2201.2	571.2	540.8	502.7	472.2	445.6	426.5	422.7	434.1
40°	4802.2	4608.0	1839.4	537.0	514.1	468.4	422.7	377.0	335.1	308.5	312.3
42.5°	5327.8	5057.4	1447.1	517.9	495.1	430.3	365.6	300.9	247.5	220.9	220.9
45°	6078.0	5651.5	1062.5	498.9	472.2	384.6	300.9	224.7	171.4	156.1	159.9
47.5°	7209.1	6367.4	761.7	468.4	441.8	335.1	236.1	159.9	125.7	118.1	121.9
50°	8686.7	7216.7	594.1	434.1	403.7	281.8	175.2	118.1	99.0	95.2	99.0
52.5°	10236.7	8073.6	521.7	403.7	346.6	224.7	129.5	95.2	83.8	80.0	83.8
55°	11561.9	8625.8	453.2	358.0	278.0	167.6	102.8	83.8	72.4	60.9	60.9
57.5°	12902.5	8903.8	358.0	297.0	205.6	125.7	87.6	72.4	60.9	49.5	45.7
60°	13991.6	9101.8	255.2	220.9	144.7	99.0	76.2	64.7	49.5	38.1	34.3
62.5°	14707.6	8534.4	186.6	167.6	106.6	83.8	64.7	53.3	38.1	26.7	26.7
65°	14353.4	7749.9	144.7	118.1	80.0	64.7	53.3	38.1	26.7	15.2	11.4
67.5°	12879.6	6314.1	118.1	87.6	60.9	49.5	41.9	30.5	15.2	3.8	3.8
70°	9608.3	4627.1	95.2	64.7	49.5	38.1	30.5	19.0	7.6	3.8	0.0
72.5°	5255.4	2532.5	76.2	53.3	38.1	30.5	22.8	15.2	7.6	0.0	0.0
75°	1736.6	674.1	57.1	38.1	22.8	19.0	15.2	11.4	3.8	0.0	0.0
77.5°	418.9	175.2	45.7	34.3	19.0	11.4	7.6	3.8	3.8	0.0	0.0
80°	129.5	72.4	34.3	22.8	15.2	11.4	3.8	0.0	0.0	0.0	0.0
82.5°	53.3	34.3	15.2	15.2	11.4	3.8	0.0	0.0	0.0	0.0	0.0
85°	26.7	19.0	11.4	7.6	7.6	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	19.0	7.6	3.8	3.8	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)