

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: P483759

Luminaire Tested: **IFLD-L-SA7B-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483759
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-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

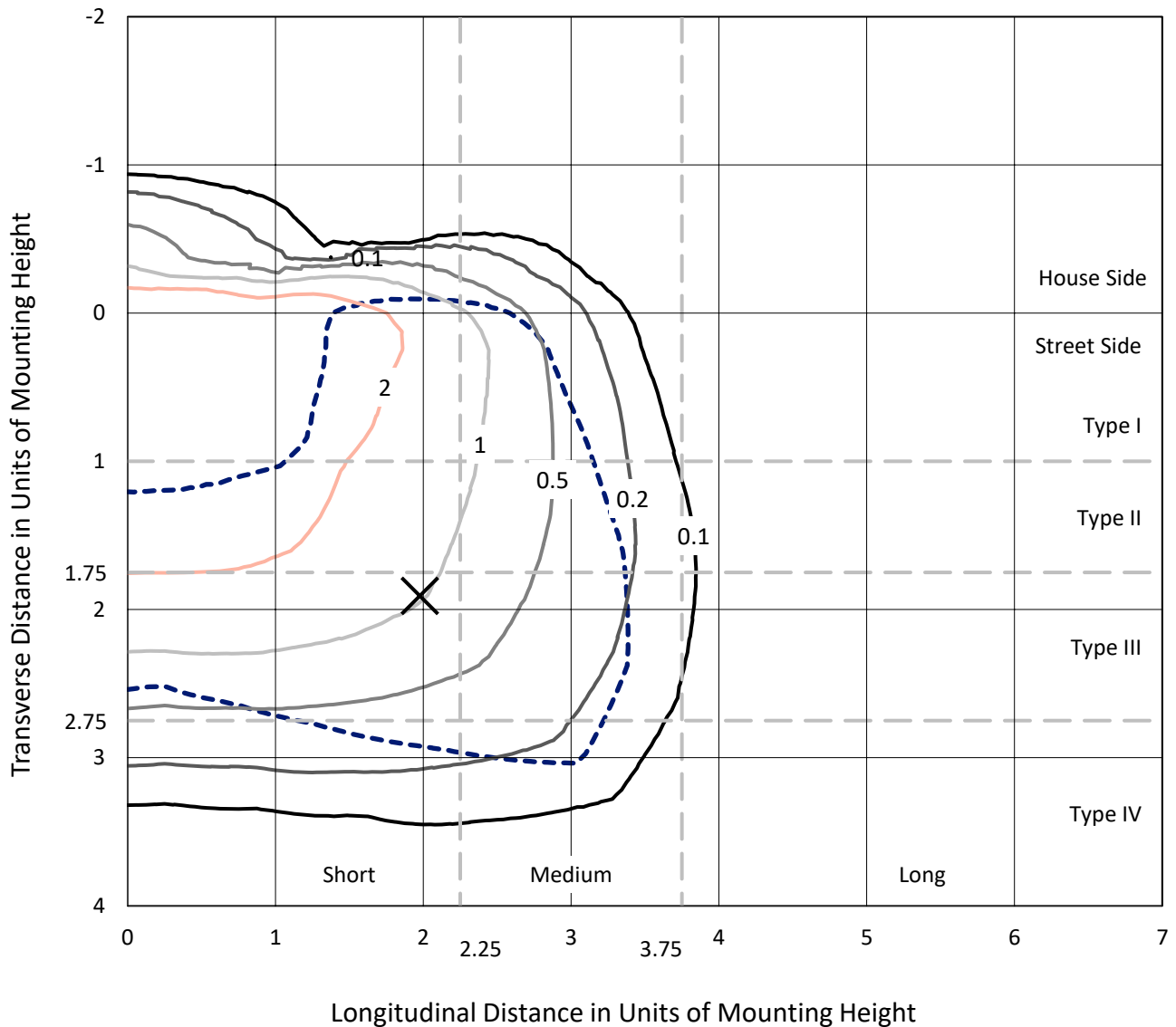
Lumens per Lamp: N/A
Luminaire Lumens: 19315.4 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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: P483759
 CATALOG NUMBER: IFLD-L-SA7B-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

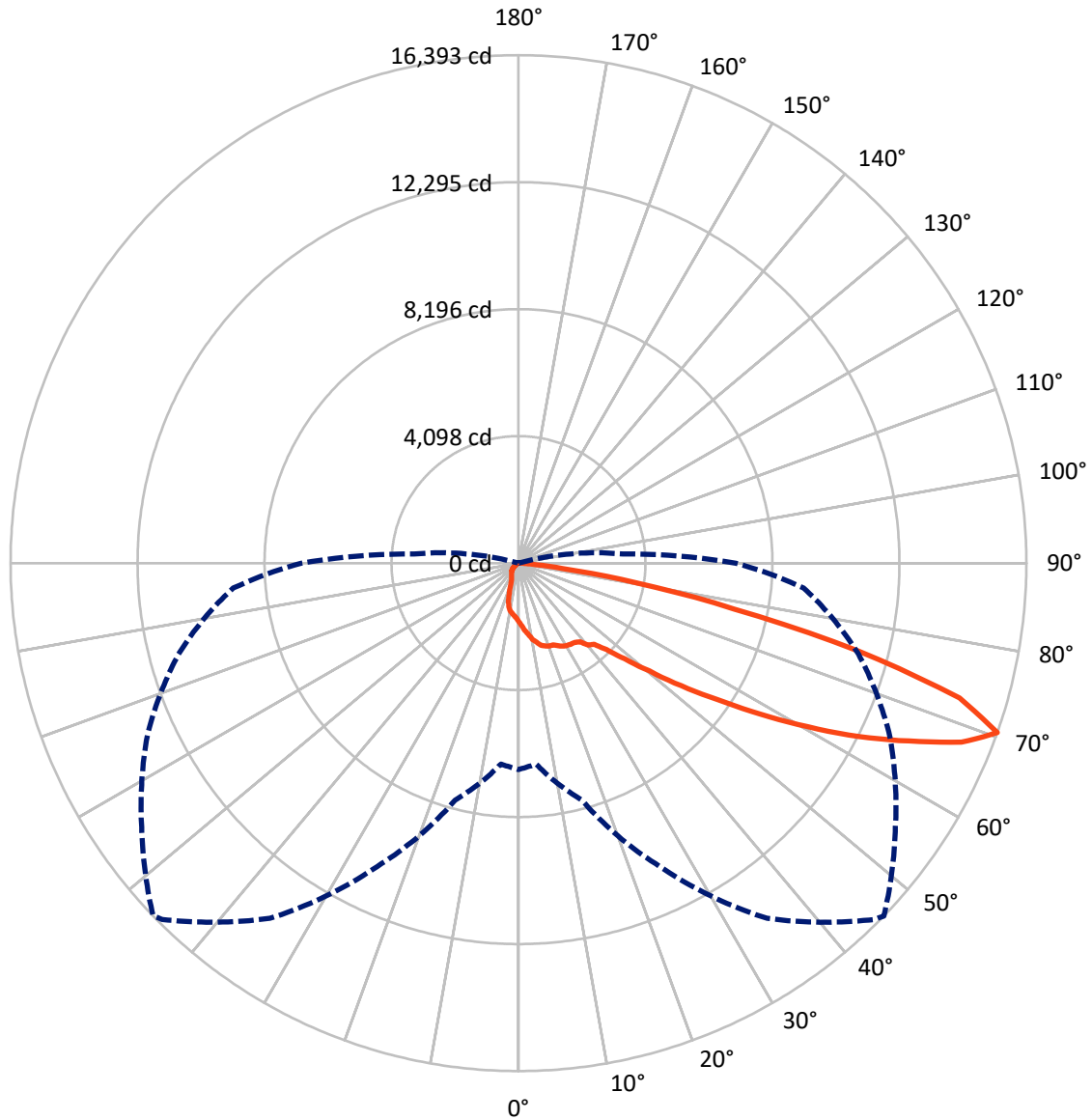
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P483759
CATALOG NUMBER: IFLD-L-SA7B-827-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483759
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1921.9	0.0	1921.9
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	17393.4	0.0	17393.4
	% Fixture	90.0	0.0	90.0
Total	Lumens	19315.4	0.0	19315.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	1.0
10°-20°	571.0	3.0
20°-30°	914.6	4.7
30°-40°	1305.4	6.8
40°-50°	2254.1	11.7
50°-60°	4315.7	22.3
60°-70°	6390.9	33.1
70°-80°	3165.4	16.4
80°-90°	209.2	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°	19315.4	100.0
0°-180°	19315.4	100.0

Coefficient of Utilization



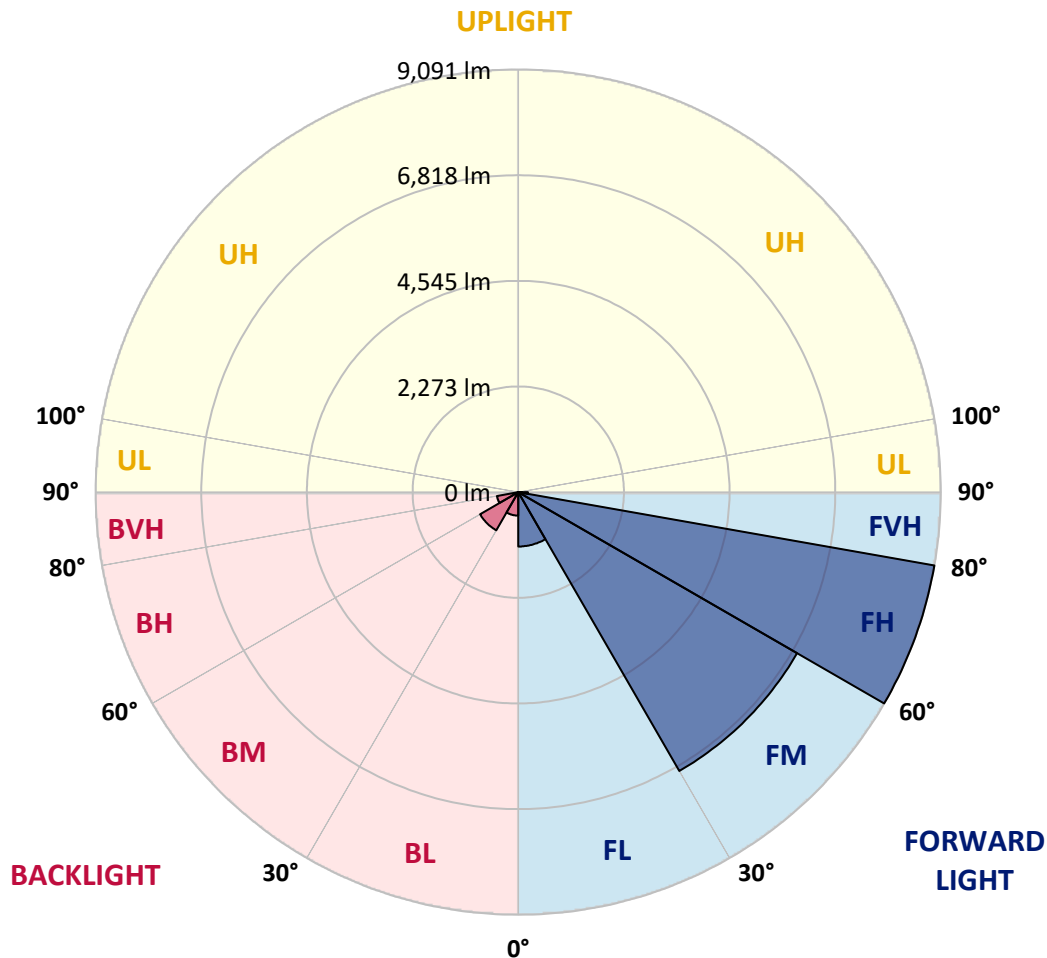
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 CATALOG NUMBER: IFLD-L-SA7B-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.7	6.1			
FM (30°-60°)	6926.5	35.9			
FH (60°-80°)	9090.8	47.1			G4/12000
FVH (80°-90°)	206.5	1.1			G2/225
BL (0°-30°)	504.9	2.6	B2/1000		
BM (30°-60°)	948.9	4.9	B1/1000		
BH (60°-80°)	465.5	2.4	B1/500		G1/500
BVH (80°-90°)	2.7	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-G4

Type IV Short





REPORT NUMBER: P483759

CATALOG NUMBER: IFLD-L-SA7B-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1896.2	1896.2	1896.2	1896.2	1896.2	1896.2	1896.2	1896.2	1896.2	1896.2	1896.2
2.5°	2115.8	2101.9	2079.7	2071.3	2049.1	2038.0	2021.3	2012.9	1982.4	1951.8	1932.3
5°	2374.4	2341.0	2352.1	2318.8	2246.5	2188.1	2185.3	2121.4	2051.9	1996.3	1921.2
7.5°	2635.7	2607.9	2566.2	2519.0	2438.3	2352.1	2327.1	2266.0	2168.6	2071.3	1971.2
10°	2833.1	2813.7	2777.5	2710.8	2599.6	2502.3	2505.1	2402.2	2299.3	2188.1	2051.9
12.5°	2955.5	2963.8	2911.0	2844.3	2746.9	2624.6	2621.8	2552.3	2435.5	2318.8	2157.5
15°	3077.8	3108.4	3027.8	2949.9	2824.8	2735.8	2752.5	2669.1	2555.1	2421.6	2243.7
17.5°	3097.3	3105.6	3088.9	2974.9	2883.2	2808.1	2810.9	2755.3	2669.1	2524.5	2371.6
20°	3063.9	3058.3	3038.9	2955.5	2894.3	2849.8	2852.6	2838.7	2791.4	2674.7	2466.1
22.5°	2966.6	2966.6	2941.6	2886.0	2858.2	2899.9	2866.5	2919.3	2869.3	2799.8	2627.4
25°	2888.7	2919.3	2905.4	2869.3	2880.4	2936.0	2952.7	3002.7	2994.4	2908.2	2738.6
27.5°	2972.1	2936.0	2944.3	2902.6	2944.3	3027.8	3036.1	3072.2	3069.5	3000.0	2838.7
30°	3027.8	3061.1	2997.2	2905.4	2949.9	3091.7	3086.1	3133.4	3155.6	3072.2	2933.2
32.5°	3205.7	3177.9	3125.1	3002.7	3008.3	3088.9	3113.9	3175.1	3189.0	3139.0	3025.0
35°	3569.9	3528.2	3297.4	3113.9	3086.1	3125.1	3141.7	3261.3	3286.3	3230.7	3122.3
37.5°	4131.5	4037.0	3759.0	3353.1	3227.9	3219.6	3219.6	3378.1	3472.6	3344.7	3266.9
40°	4935.0	4801.6	4501.3	3795.1	3414.2	3447.6	3480.9	3567.1	3556.0	3472.6	3455.9
42.5°	5958.2	5855.3	5530.0	4537.5	3770.1	3603.3	3575.5	3692.2	3867.4	3834.0	3822.9
45°	6811.8	6817.3	6608.8	5555.1	4384.5	3961.9	3981.4	4070.4	4365.1	4340.1	4337.3
47.5°	7434.5	7356.7	7326.1	6536.5	5279.8	4643.1	4615.3	4676.5	5060.2	5218.6	5290.9
50°	8001.7	7948.9	7876.6	7490.1	6355.8	5496.7	5468.9	5474.4	6061.1	6283.5	6461.4
52.5°	8705.1	8771.9	8532.8	8296.4	7748.7	6606.0	6575.4	6467.0	7195.4	7501.3	7712.6
55°	9572.6	9447.5	9177.8	9300.1	9080.5	7804.3	7748.7	7620.8	8488.3	8616.2	8838.6
57.5°	9764.4	9669.9	9947.9	10381.7	10593.0	9211.2	9188.9	8958.1	9575.4	9458.6	10087.0
60°	10242.7	10267.7	10654.1	11516.0	11883.0	10834.9	10726.4	10320.5	10629.1	10651.4	11321.4
62.5°	10734.8	10676.4	11541.1	12369.6	12934.0	12372.4	12336.2	11529.9	11880.3	11596.7	12483.6
65°	10373.3	10462.3	11699.5	13086.9	14296.3	13876.5	13845.9	12694.9	12886.7	12533.6	12956.2
67.5°	9088.8	8908.1	10640.2	12758.8	14997.0	15452.9	15419.6	13965.5	13453.9	12528.1	11974.8
70°	6661.6	6505.9	7918.3	10804.3	13993.3	16259.2	16392.7	14849.6	13223.1	11360.3	9239.0
72.5°	3264.1	3266.9	4437.4	7326.1	11071.2	14819.0	14885.8	13615.2	11360.3	8374.3	5232.5
75°	964.8	975.9	1643.2	3592.2	7156.5	11254.7	11329.8	10334.4	7873.8	4326.2	1785.0
77.5°	353.1	353.1	544.9	1348.4	3569.9	7103.7	7098.1	6344.7	3987.0	1465.2	417.0
80°	183.5	191.8	283.6	550.5	1545.9	3700.6	3839.6	3105.6	1515.3	617.2	122.3
82.5°	75.1	83.4	155.7	283.6	742.3	1298.4	1420.7	1217.8	658.9	430.9	55.6
85°	22.2	25.0	75.1	158.5	291.9	325.3	361.4	408.7	414.3	333.6	25.0
87.5°	2.8	2.8	30.6	52.8	63.9	69.5	80.6	80.6	211.3	233.5	13.9
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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CATALOG NUMBER: IFLD-L-SA7B-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1896.2	1896.2	1896.2	1896.2	1896.2	1896.2	1896.2	1896.2	1896.2	1896.2	1896.2
2.5°	1910.1	1896.2	1873.9	1823.9	1812.8	1776.6	1773.8	1740.5	1751.6	1729.4	1721.0
5°	1896.2	1865.6	1804.4	1765.5	1726.6	1701.5	1684.9	1671.0	1668.2	1657.1	1651.5
7.5°	1921.2	1879.5	1785.0	1723.8	1657.1	1634.8	1598.7	1595.9	1576.4	1557.0	1557.0
10°	2004.6	1929.5	1826.7	1723.8	1637.6	1565.3	1481.9	1420.7	1398.5	1348.4	1354.0
12.5°	2071.3	2004.6	1854.5	1748.8	1618.1	1454.1	1270.6	1128.8	1062.1	998.1	1023.2
15°	2165.9	2068.5	1907.3	1754.4	1543.1	1259.5	959.2	800.7	739.6	725.7	722.9
17.5°	2268.7	2165.9	1974.0	1740.5	1390.2	973.1	706.2	614.4	625.6	642.3	639.5
20°	2382.7	2257.6	2024.1	1693.2	1148.3	706.2	578.3	575.5	592.2	617.2	622.8
22.5°	2502.3	2393.8	2085.2	1551.4	856.3	567.2	556.1	556.1	567.2	597.8	592.2
25°	2635.7	2491.2	2115.8	1331.8	614.4	522.7	528.3	539.4	544.9	570.0	572.7
27.5°	2738.6	2599.6	2124.2	1067.6	500.5	483.8	497.7	511.6	519.9	539.4	547.7
30°	2833.1	2735.8	2079.7	795.2	458.8	450.4	456.0	475.4	492.1	508.8	508.8
32.5°	2952.7	2813.7	1976.8	564.4	433.7	419.8	417.0	425.4	444.8	464.3	464.3
35°	3075.0	2944.3	1812.8	453.2	411.5	392.0	380.9	372.6	380.9	394.8	405.9
37.5°	3253.0	3141.7	1607.0	417.0	394.8	367.0	344.8	325.3	311.4	308.6	317.0
40°	3506.0	3364.2	1342.9	392.0	375.3	342.0	308.6	275.3	244.7	225.2	228.0
42.5°	3889.6	3692.2	1056.5	378.1	361.4	314.2	266.9	219.6	180.7	161.3	161.3
45°	4437.4	4126.0	775.7	364.2	344.8	280.8	219.6	164.0	125.1	114.0	116.8
47.5°	5263.1	4648.7	556.1	342.0	322.5	244.7	172.4	116.8	91.8	86.2	89.0
50°	6341.9	5268.7	433.7	317.0	294.7	205.7	127.9	86.2	72.3	69.5	72.3
52.5°	7473.5	5894.3	380.9	294.7	253.0	164.0	94.5	69.5	61.2	58.4	61.2
55°	8441.0	6297.4	330.9	261.3	203.0	122.3	75.1	61.2	52.8	44.5	44.5
57.5°	9419.7	6500.4	261.3	216.9	150.1	91.8	63.9	52.8	44.5	36.1	33.4
60°	10214.8	6644.9	186.3	161.3	105.7	72.3	55.6	47.3	36.1	27.8	25.0
62.5°	10737.5	6230.7	136.2	122.3	77.8	61.2	47.3	38.9	27.8	19.5	19.5
65°	10479.0	5657.9	105.7	86.2	58.4	47.3	38.9	27.8	19.5	11.1	8.3
67.5°	9403.0	4609.7	86.2	63.9	44.5	36.1	30.6	22.2	11.1	2.8	2.8
70°	7014.7	3378.1	69.5	47.3	36.1	27.8	22.2	13.9	5.6	2.8	0.0
72.5°	3836.8	1848.9	55.6	38.9	27.8	22.2	16.7	11.1	5.6	0.0	0.0
75°	1267.8	492.1	41.7	27.8	16.7	13.9	11.1	8.3	2.8	0.0	0.0
77.5°	305.8	127.9	33.4	25.0	13.9	8.3	5.6	2.8	2.8	0.0	0.0
80°	94.5	52.8	25.0	16.7	11.1	8.3	2.8	0.0	0.0	0.0	0.0
82.5°	38.9	25.0	11.1	11.1	8.3	2.8	0.0	0.0	0.0	0.0	0.0
85°	19.5	13.9	8.3	5.6	5.6	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	5.6	2.8	2.8	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)