

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: P483760

Luminaire Tested: **IFLD-L-SA7C-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483760
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-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

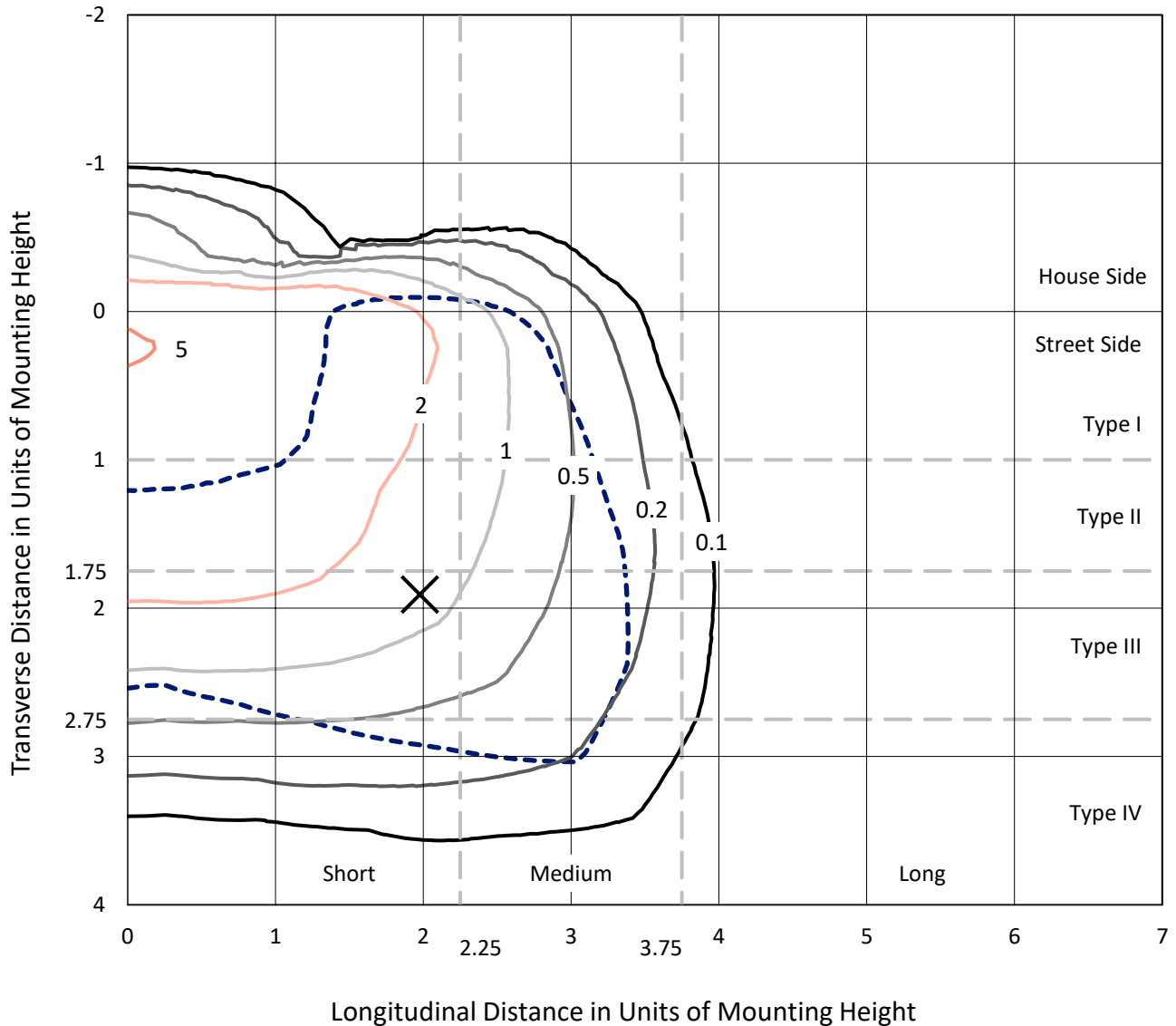
Lumens per Lamp: N/A
Luminaire Lumens: 24044.3 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 369
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: P483760
 CATALOG NUMBER: IFLD-L-SA7C-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

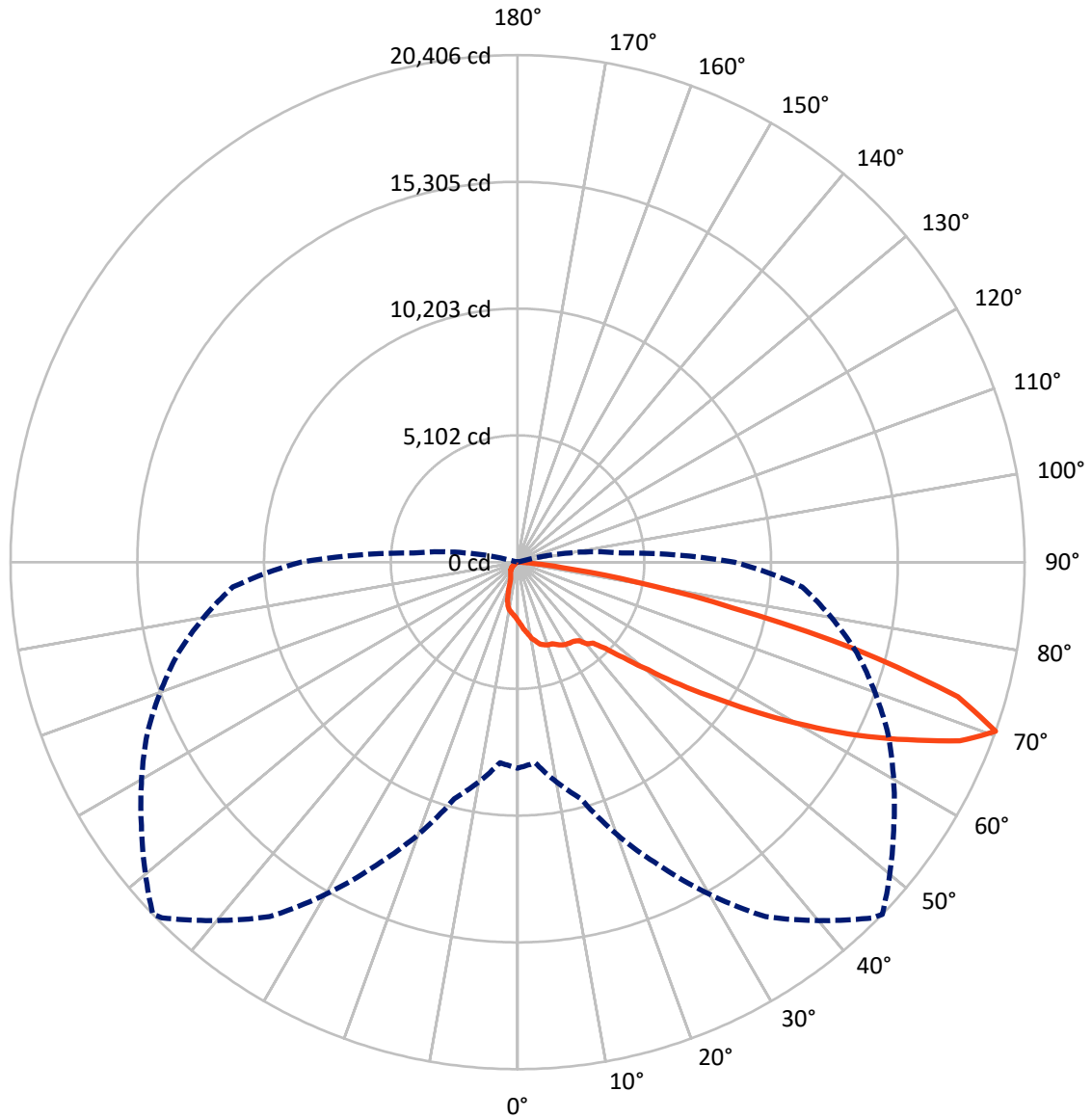
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P483760
CATALOG NUMBER: IFLD-L-SA7C-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	2392.5	0.0	2392.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	21651.8	0.0	21651.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	24044.3	0.0	24044.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	1.0
10°-20°	710.8	3.0
20°-30°	1138.5	4.7
30°-40°	1625.0	6.8
40°-50°	2806.0	11.7
50°-60°	5372.4	22.3
60°-70°	7955.6	33.1
70°-80°	3940.3	16.4
80°-90°	260.4	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°	24044.3	100.0
0°-180°	24044.3	100.0

Coefficient of Utilization



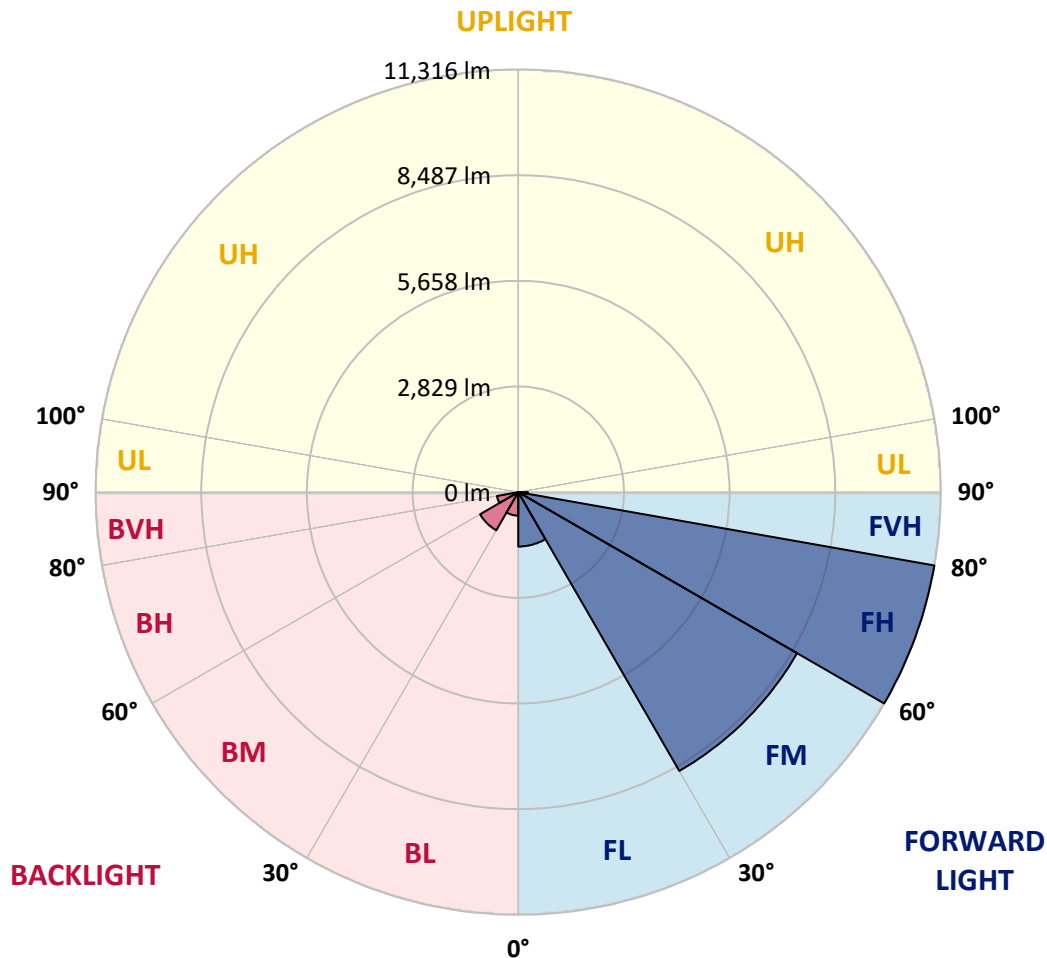
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 CATALOG NUMBER: IFLD-L-SA7C-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1456.1	6.1			
FM (30°-60°)	8622.2	35.9			
FH (60°-80°)	11316.5	47.1			G4/12000
FVH (80°-90°)	257.1	1.1			G3/500
BL (0°-30°)	628.5	2.6	B2/1000		
BM (30°-60°)	1181.2	4.9	B2/2500		
BH (60°-80°)	579.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.3	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: P483760

CATALOG NUMBER: IFLD-L-SA7C-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4
2.5°	2633.8	2616.5	2588.8	2578.4	2550.8	2536.9	2516.1	2505.8	2467.7	2429.6	2405.4
5°	2955.7	2914.2	2928.0	2886.5	2796.5	2723.8	2720.3	2640.7	2554.2	2485.0	2391.6
7.5°	3281.0	3246.4	3194.5	3135.7	3035.3	2928.0	2896.9	2820.7	2699.6	2578.4	2453.8
10°	3526.8	3502.5	3457.5	3374.5	3236.0	3114.9	3118.4	2990.3	2862.2	2723.8	2554.2
12.5°	3679.0	3689.4	3623.7	3540.6	3419.5	3267.2	3263.7	3177.2	3031.8	2886.5	2685.7
15°	3831.3	3869.4	3769.0	3672.1	3516.4	3405.6	3426.4	3322.6	3180.7	3014.5	2793.0
17.5°	3855.6	3865.9	3845.2	3703.3	3589.1	3495.6	3499.1	3429.9	3322.6	3142.6	2952.2
20°	3814.0	3807.1	3782.9	3679.0	3602.9	3547.5	3551.0	3533.7	3474.8	3329.5	3069.9
22.5°	3692.9	3692.9	3661.7	3592.5	3557.9	3609.8	3568.3	3634.0	3571.8	3485.2	3270.6
25°	3596.0	3634.0	3616.7	3571.8	3585.6	3654.8	3675.6	3737.9	3727.5	3620.2	3409.1
27.5°	3699.8	3654.8	3665.2	3613.3	3665.2	3769.0	3779.4	3824.4	3820.9	3734.4	3533.7
30°	3769.0	3810.6	3731.0	3616.7	3672.1	3848.6	3841.7	3900.5	3928.2	3824.4	3651.4
32.5°	3990.5	3955.9	3890.2	3737.9	3744.8	3845.2	3876.3	3952.5	3969.8	3907.5	3765.6
35°	4443.9	4392.0	4104.7	3876.3	3841.7	3890.2	3910.9	4059.8	4090.9	4021.7	3886.7
37.5°	5143.0	5025.4	4679.3	4174.0	4018.2	4007.8	4007.8	4205.1	4322.8	4163.6	4066.7
40°	6143.3	5977.1	5603.4	4724.3	4250.1	4291.6	4333.2	4440.5	4426.6	4322.8	4302.0
42.5°	7416.9	7288.9	6883.9	5648.4	4693.1	4485.5	4450.8	4596.2	4814.3	4772.7	4758.9
45°	8479.4	8486.4	8226.8	6915.1	5458.0	4931.9	4956.2	5066.9	5433.8	5402.6	5399.2
47.5°	9254.7	9157.8	9119.7	8136.8	6572.4	5779.9	5745.3	5821.4	6299.0	6496.3	6586.3
50°	9960.8	9895.0	9805.0	9323.9	7911.8	6842.4	6807.8	6814.7	7545.0	7821.9	8043.4
52.5°	10836.4	10919.5	10621.8	10327.6	9645.8	8223.3	8185.3	8050.3	8957.1	9337.8	9600.8
55°	11916.2	11760.5	11424.8	11577.0	11303.6	9715.0	9645.8	9486.6	10566.4	10725.6	11002.5
57.5°	12155.0	12037.4	12383.5	12923.4	13186.4	11466.3	11438.6	11151.3	11919.7	11774.3	12556.5
60°	12750.3	12781.5	13262.6	14335.5	14792.3	13487.5	13352.5	12847.2	13231.4	13259.1	14093.2
62.5°	13362.9	13290.2	14366.6	15398.0	16100.6	15401.4	15356.5	14352.8	14788.9	14435.8	15539.9
65°	12913.0	13023.7	14563.9	16290.9	17796.5	17273.8	17235.8	15802.9	16041.7	15602.2	16128.3
67.5°	11314.0	11089.0	13245.2	15882.5	18668.6	19236.2	19194.7	17384.6	16747.8	15595.3	14906.5
70°	8292.6	8098.7	9856.9	13449.4	17419.2	20239.9	20406.1	18485.2	16460.5	14141.6	11500.9
72.5°	4063.2	4066.7	5523.8	9119.7	13781.7	18447.1	18530.2	16948.5	14141.6	10424.5	6513.6
75°	1201.0	1214.8	2045.5	4471.6	8908.6	14010.1	14103.6	12864.5	9801.6	5385.3	2222.0
77.5°	439.5	439.5	678.4	1678.6	4443.9	8842.9	8835.9	7898.0	4963.1	1823.9	519.1
80°	228.4	238.8	353.0	685.3	1924.3	4606.6	4779.6	3865.9	1886.2	768.3	152.3
82.5°	93.4	103.8	193.8	353.0	924.1	1616.3	1768.6	1515.9	820.3	536.5	69.2
85°	27.7	31.1	93.4	197.3	363.4	404.9	449.9	508.8	515.7	415.3	31.1
87.5°	3.5	3.5	38.1	65.8	79.6	86.5	100.4	100.4	263.0	290.7	17.3
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: P483760

CATALOG NUMBER: IFLD-L-SA7C-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4
2.5°	2377.7	2360.4	2332.7	2270.4	2256.6	2211.6	2208.1	2166.6	2180.4	2152.7	2142.4
5°	2360.4	2322.3	2246.2	2197.7	2149.3	2118.1	2097.4	2080.1	2076.6	2062.8	2055.8
7.5°	2391.6	2339.6	2222.0	2145.8	2062.8	2035.1	1990.1	1986.6	1962.4	1938.2	1938.2
10°	2495.4	2401.9	2273.9	2145.8	2038.5	1948.5	1844.7	1768.6	1740.9	1678.6	1685.5
12.5°	2578.4	2495.4	2308.5	2177.0	2014.3	1810.1	1581.7	1405.2	1322.1	1242.5	1273.6
15°	2696.1	2575.0	2374.2	2183.9	1920.9	1567.8	1194.0	996.8	920.6	903.3	899.9
17.5°	2824.2	2696.1	2457.3	2166.6	1730.5	1211.3	879.1	764.9	778.7	799.5	796.0
20°	2966.1	2810.3	2519.6	2107.7	1429.4	879.1	719.9	716.4	737.2	768.3	775.3
22.5°	3114.9	2979.9	2595.7	1931.2	1066.0	706.0	692.2	692.2	706.0	744.1	737.2
25°	3281.0	3101.1	2633.8	1657.8	764.9	650.7	657.6	671.4	678.4	709.5	713.0
27.5°	3409.1	3236.0	2644.2	1329.0	623.0	602.2	619.5	636.8	647.2	671.4	681.8
30°	3526.8	3405.6	2588.8	989.8	571.1	560.7	567.6	591.8	612.6	633.4	633.4
32.5°	3675.6	3502.5	2460.8	702.6	539.9	522.6	519.1	529.5	553.8	578.0	578.0
35°	3827.9	3665.2	2256.6	564.1	512.2	488.0	474.2	463.8	474.2	491.5	505.3
37.5°	4049.4	3910.9	2000.5	519.1	491.5	456.9	429.2	404.9	387.6	384.2	394.6
40°	4364.3	4187.8	1671.7	488.0	467.2	425.7	384.2	342.6	304.6	280.3	283.8
42.5°	4841.9	4596.2	1315.2	470.7	449.9	391.1	332.3	273.4	225.0	200.7	200.7
45°	5523.8	5136.1	965.6	453.4	429.2	349.6	273.4	204.2	155.7	141.9	145.4
47.5°	6551.7	5786.8	692.2	425.7	401.5	304.6	214.6	145.4	114.2	107.3	110.8
50°	7894.5	6558.6	539.9	394.6	366.9	256.1	159.2	107.3	90.0	86.5	90.0
52.5°	9303.2	7337.3	474.2	366.9	315.0	204.2	117.7	86.5	76.1	72.7	76.1
55°	10507.6	7839.2	411.9	325.3	252.7	152.3	93.4	76.1	65.8	55.4	55.4
57.5°	11725.9	8091.8	325.3	270.0	186.9	114.2	79.6	65.8	55.4	45.0	41.5
60°	12715.7	8271.8	231.9	200.7	131.5	90.0	69.2	58.8	45.0	34.6	31.1
62.5°	13366.4	7756.1	169.6	152.3	96.9	76.1	58.8	48.5	34.6	24.2	24.2
65°	13044.5	7043.1	131.5	107.3	72.7	58.8	48.5	34.6	24.2	13.8	10.4
67.5°	11705.1	5738.3	107.3	79.6	55.4	45.0	38.1	27.7	13.8	3.5	3.5
70°	8732.1	4205.1	86.5	58.8	45.0	34.6	27.7	17.3	6.9	3.5	0.0
72.5°	4776.2	2301.6	69.2	48.5	34.6	27.7	20.8	13.8	6.9	0.0	0.0
75°	1578.2	612.6	51.9	34.6	20.8	17.3	13.8	10.4	3.5	0.0	0.0
77.5°	380.7	159.2	41.5	31.1	17.3	10.4	6.9	3.5	3.5	0.0	0.0
80°	117.7	65.8	31.1	20.8	13.8	10.4	3.5	0.0	0.0	0.0	0.0
82.5°	48.5	31.1	13.8	13.8	10.4	3.5	0.0	0.0	0.0	0.0	0.0
85°	24.2	17.3	10.4	6.9	6.9	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	17.3	6.9	3.5	3.5	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)