

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: P483798

Luminaire Tested: **IFLD-L-SA7B-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483798
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

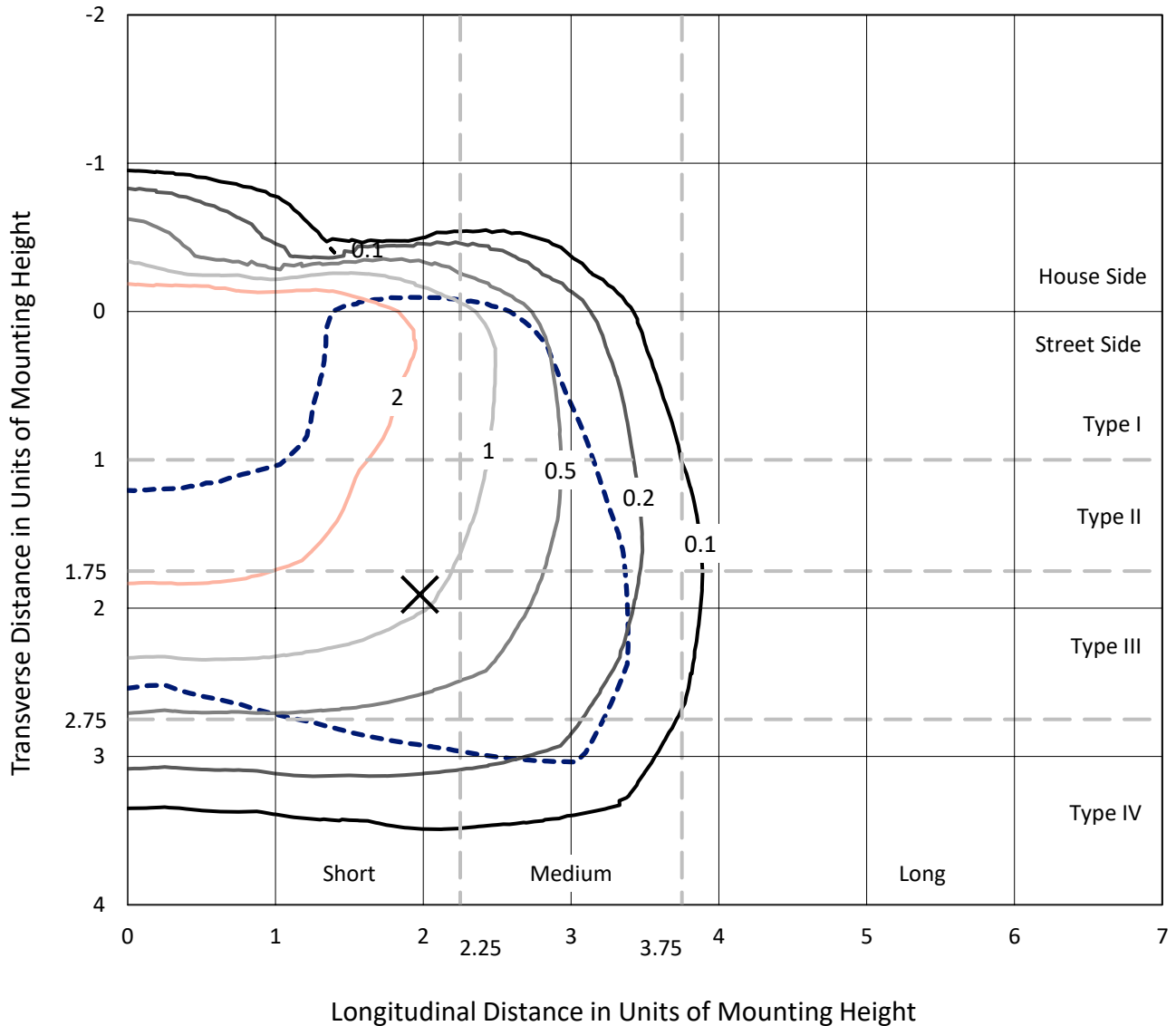
Lumens per Lamp: N/A
Luminaire Lumens: 20878.8 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

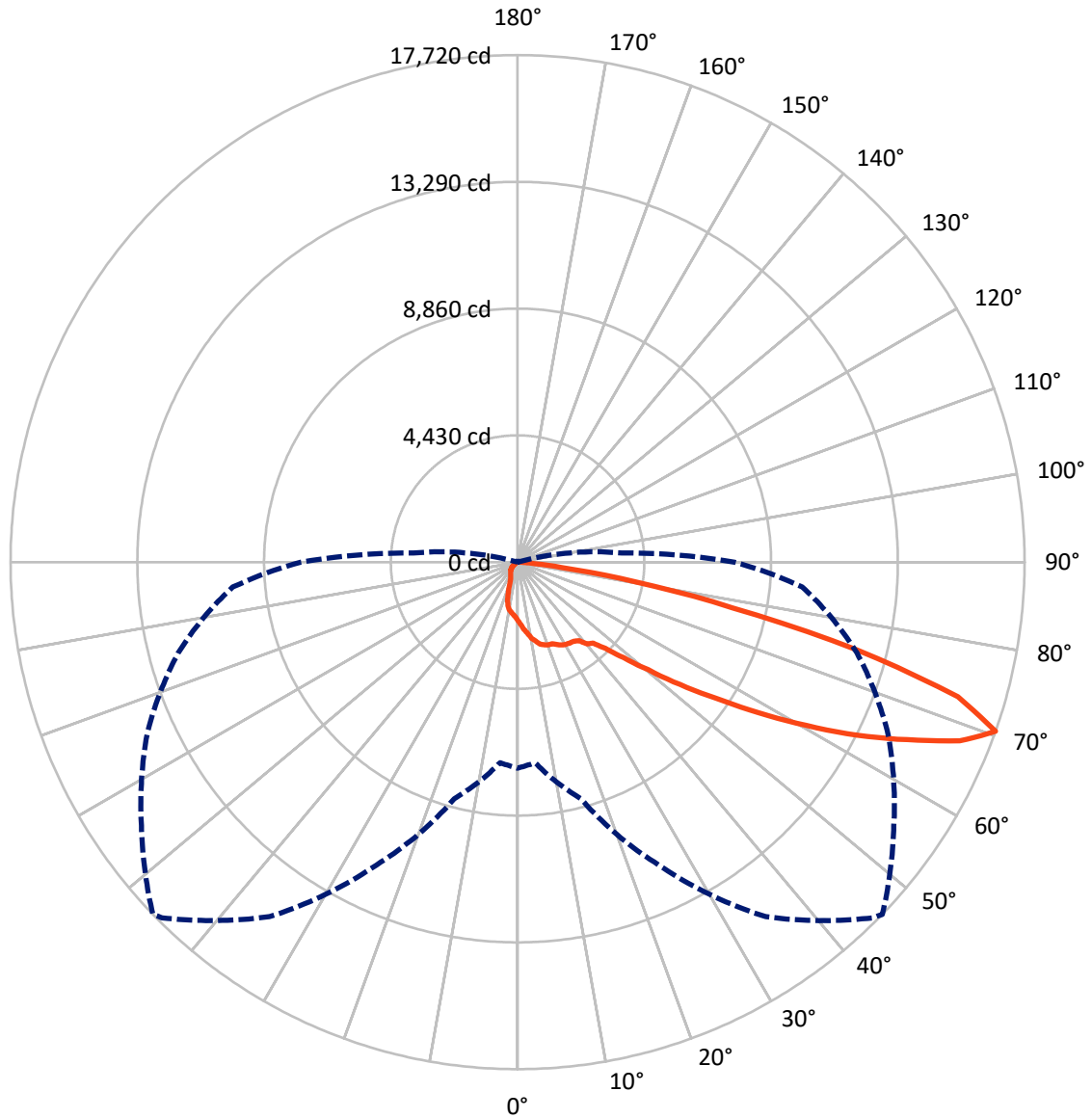
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2077.5	0.0	2077.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	18801.3	0.0	18801.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	20878.8	0.0	20878.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	1.0
10°-20°	617.2	3.0
20°-30°	988.6	4.7
30°-40°	1411.1	6.8
40°-50°	2436.6	11.7
50°-60°	4665.1	22.3
60°-70°	6908.2	33.1
70°-80°	3421.6	16.4
80°-90°	226.1	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°	20878.8	100.0
0°-180°	20878.8	100.0

Coefficient of Utilization



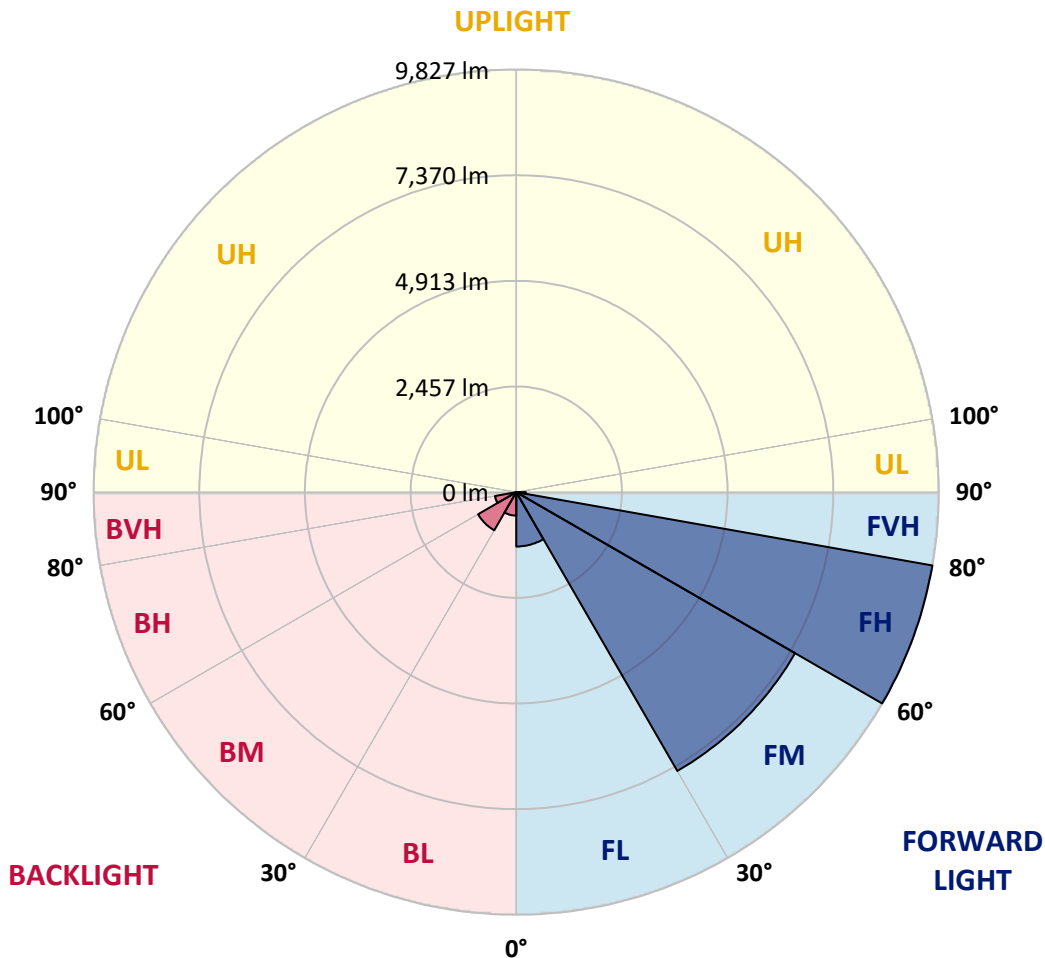
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1264.4	6.1			
FM (30°-60°)	7487.1	35.9			
FH (60°-80°)	9826.6	47.1			G4/12000
FVH (80°-90°)	223.2	1.1			G2/225
BL (0°-30°)	545.8	2.6	B2/1000		
BM (30°-60°)	1025.7	4.9	B2/2500		
BH (60°-80°)	503.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.9	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°	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6
2.5°	2287.1	2272.0	2248.0	2239.0	2214.9	2202.9	2184.9	2175.9	2142.8	2109.8	2088.7
5°	2566.6	2530.5	2542.5	2506.5	2428.3	2365.2	2362.2	2293.1	2217.9	2157.8	2076.7
7.5°	2849.1	2819.0	2773.9	2722.8	2635.7	2542.5	2515.5	2449.4	2344.2	2239.0	2130.8
10°	3062.5	3041.4	3002.3	2930.2	2810.0	2704.8	2707.8	2596.6	2485.4	2365.2	2217.9
12.5°	3194.7	3203.7	3146.6	3074.5	2969.3	2837.0	2834.0	2758.9	2632.7	2506.5	2332.2
15°	3326.9	3360.0	3272.8	3188.7	3053.4	2957.3	2975.3	2885.1	2761.9	2617.7	2425.3
17.5°	3348.0	3357.0	3338.9	3215.7	3116.5	3035.4	3038.4	2978.3	2885.1	2728.9	2563.6
20°	3311.9	3305.9	3284.8	3194.7	3128.6	3080.5	3083.5	3068.5	3017.4	2891.1	2665.7
22.5°	3206.7	3206.7	3179.7	3119.6	3089.5	3134.6	3098.5	3155.6	3101.5	3026.4	2840.1
25°	3122.6	3155.6	3140.6	3101.5	3113.5	3173.6	3191.7	3245.8	3236.8	3143.6	2960.3
27.5°	3212.7	3173.6	3182.7	3137.6	3182.7	3272.8	3281.8	3320.9	3317.9	3242.8	3068.5
30°	3272.8	3308.9	3239.8	3140.6	3188.7	3341.9	3335.9	3387.0	3411.1	3320.9	3170.6
32.5°	3465.2	3435.1	3378.0	3245.8	3251.8	3338.9	3366.0	3432.1	3447.1	3393.0	3269.8
35°	3858.9	3813.8	3564.3	3366.0	3335.9	3378.0	3396.0	3525.3	3552.3	3492.2	3375.0
37.5°	4465.9	4363.8	4063.2	3624.5	3489.2	3480.2	3480.2	3651.5	3753.7	3615.4	3531.3
40°	5334.5	5190.2	4865.7	4102.3	3690.6	3726.6	3762.7	3855.9	3843.8	3753.7	3735.6
42.5°	6440.5	6329.3	5977.6	4904.7	4075.3	3894.9	3864.9	3991.1	4180.4	4144.4	4132.4
45°	7363.1	7369.1	7143.7	6004.7	4739.4	4282.6	4303.7	4399.8	4718.4	4691.3	4688.3
47.5°	8036.3	7952.2	7919.1	7065.6	5707.2	5018.9	4988.9	5055.0	5469.7	5641.0	5719.2
50°	8649.4	8592.3	8514.2	8096.4	6870.2	5941.6	5911.5	5917.5	6551.7	6792.1	6984.4
52.5°	9409.7	9481.9	9223.4	8968.0	8375.9	7140.7	7107.7	6990.4	7777.8	8108.4	8336.8
55°	10347.4	10212.2	9920.7	10052.9	9815.5	8436.0	8375.9	8237.7	9175.3	9313.6	9554.0
57.5°	10554.8	10452.6	10753.1	11222.0	11450.4	9956.7	9932.7	9683.2	10350.4	10224.2	10903.4
60°	11071.7	11098.8	11516.5	12448.2	12844.9	11711.8	11594.6	11155.9	11489.4	11513.5	12237.8
62.5°	11603.7	11540.5	12475.2	13370.8	13980.9	13373.8	13334.7	12463.2	12841.9	12535.3	13494.0
65°	11213.0	11309.1	12646.5	14146.2	15453.5	14999.7	14966.6	13722.4	13929.8	13548.1	14004.9
67.5°	9824.5	9629.1	11501.5	13791.5	16210.9	16703.7	16667.7	15095.9	14542.9	13542.1	12944.0
70°	7200.8	7032.5	8559.2	11678.8	15125.9	17575.3	17719.5	16051.6	14293.4	12279.9	9986.8
72.5°	3528.3	3531.3	4796.5	7919.1	11967.3	16018.5	16090.6	14717.2	12279.9	9052.1	5656.1
75°	1042.9	1054.9	1776.2	3882.9	7735.8	12165.7	12246.8	11170.9	8511.1	4676.3	1929.4
77.5°	381.7	381.7	589.0	1457.6	3858.9	7678.7	7672.7	6858.2	4309.7	1583.8	450.8
80°	198.4	207.4	306.5	595.1	1671.0	4000.1	4150.4	3357.0	1637.9	667.2	132.2
82.5°	81.1	90.2	168.3	306.5	802.4	1403.5	1535.7	1316.3	712.3	465.8	60.1
85°	24.0	27.0	81.1	171.3	315.6	351.6	390.7	441.8	447.8	360.6	27.0
87.5°	3.0	3.0	33.1	57.1	69.1	75.1	87.2	87.2	228.4	252.4	15.0
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°	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6
2.5°	2064.7	2049.6	2025.6	1971.5	1959.5	1920.4	1917.4	1881.3	1893.4	1869.3	1860.3
5°	2049.6	2016.6	1950.5	1908.4	1866.3	1839.3	1821.2	1806.2	1803.2	1791.2	1785.2
7.5°	2076.7	2031.6	1929.4	1863.3	1791.2	1767.1	1728.1	1725.1	1704.0	1683.0	1683.0
10°	2166.9	2085.7	1974.5	1863.3	1770.2	1692.0	1601.9	1535.7	1511.7	1457.6	1463.6
12.5°	2239.0	2166.9	2004.6	1890.4	1749.1	1571.8	1373.4	1220.2	1148.0	1078.9	1106.0
15°	2341.2	2236.0	2061.7	1896.4	1668.0	1361.4	1036.8	865.5	799.4	784.4	781.4
17.5°	2452.4	2341.2	2133.8	1881.3	1502.7	1051.9	763.4	664.2	676.2	694.2	691.2
20°	2575.6	2440.3	2187.9	1830.3	1241.2	763.4	625.1	622.1	640.1	667.2	673.2
22.5°	2704.8	2587.6	2254.0	1677.0	925.6	613.1	601.1	601.1	613.1	646.2	640.1
25°	2849.1	2692.8	2287.1	1439.6	664.2	565.0	571.0	583.0	589.0	616.1	619.1
27.5°	2960.3	2810.0	2296.1	1154.1	541.0	522.9	538.0	553.0	562.0	583.0	592.1
30°	3062.5	2957.3	2248.0	859.5	495.9	486.9	492.9	513.9	531.9	550.0	550.0
32.5°	3191.7	3041.4	2136.8	610.1	468.8	453.8	450.8	459.8	480.9	501.9	501.9
35°	3323.9	3182.7	1959.5	489.9	444.8	423.8	411.7	402.7	411.7	426.8	438.8
37.5°	3516.3	3396.0	1737.1	450.8	426.8	396.7	372.7	351.6	336.6	333.6	342.6
40°	3789.7	3636.5	1451.6	423.8	405.7	369.7	333.6	297.5	264.5	243.4	246.4
42.5°	4204.5	3991.1	1142.0	408.7	390.7	339.6	288.5	237.4	195.3	174.3	174.3
45°	4796.5	4459.9	838.5	393.7	372.7	303.5	237.4	177.3	135.2	123.2	126.2
47.5°	5689.1	5024.9	601.1	369.7	348.6	264.5	186.3	126.2	99.2	93.2	96.2
50°	6855.2	5695.1	468.8	342.6	318.6	222.4	138.2	93.2	78.1	75.1	78.1
52.5°	8078.4	6371.3	411.7	318.6	273.5	177.3	102.2	75.1	66.1	63.1	66.1
55°	9124.2	6807.1	357.6	282.5	219.4	132.2	81.1	66.1	57.1	48.1	48.1
57.5°	10182.1	7026.5	282.5	234.4	162.3	99.2	69.1	57.1	48.1	39.1	36.1
60°	11041.7	7182.8	201.4	174.3	114.2	78.1	60.1	51.1	39.1	30.1	27.0
62.5°	11606.7	6735.0	147.3	132.2	84.1	66.1	51.1	42.1	30.1	21.0	21.0
65°	11327.2	6115.9	114.2	93.2	63.1	51.1	42.1	30.1	21.0	12.0	9.0
67.5°	10164.1	4982.9	93.2	69.1	48.1	39.1	33.1	24.0	12.0	3.0	3.0
70°	7582.5	3651.5	75.1	51.1	39.1	30.1	24.0	15.0	6.0	3.0	0.0
72.5°	4147.4	1998.6	60.1	42.1	30.1	24.0	18.0	12.0	6.0	0.0	0.0
75°	1370.4	531.9	45.1	30.1	18.0	15.0	12.0	9.0	3.0	0.0	0.0
77.5°	330.6	138.2	36.1	27.0	15.0	9.0	6.0	3.0	3.0	0.0	0.0
80°	102.2	57.1	27.0	18.0	12.0	9.0	3.0	0.0	0.0	0.0	0.0
82.5°	42.1	27.0	12.0	12.0	9.0	3.0	0.0	0.0	0.0	0.0	0.0
85°	21.0	15.0	9.0	6.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.0	6.0	3.0	3.0	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)