

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: P483764

Luminaire Tested: **IFLD-L-SA8B-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483764
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

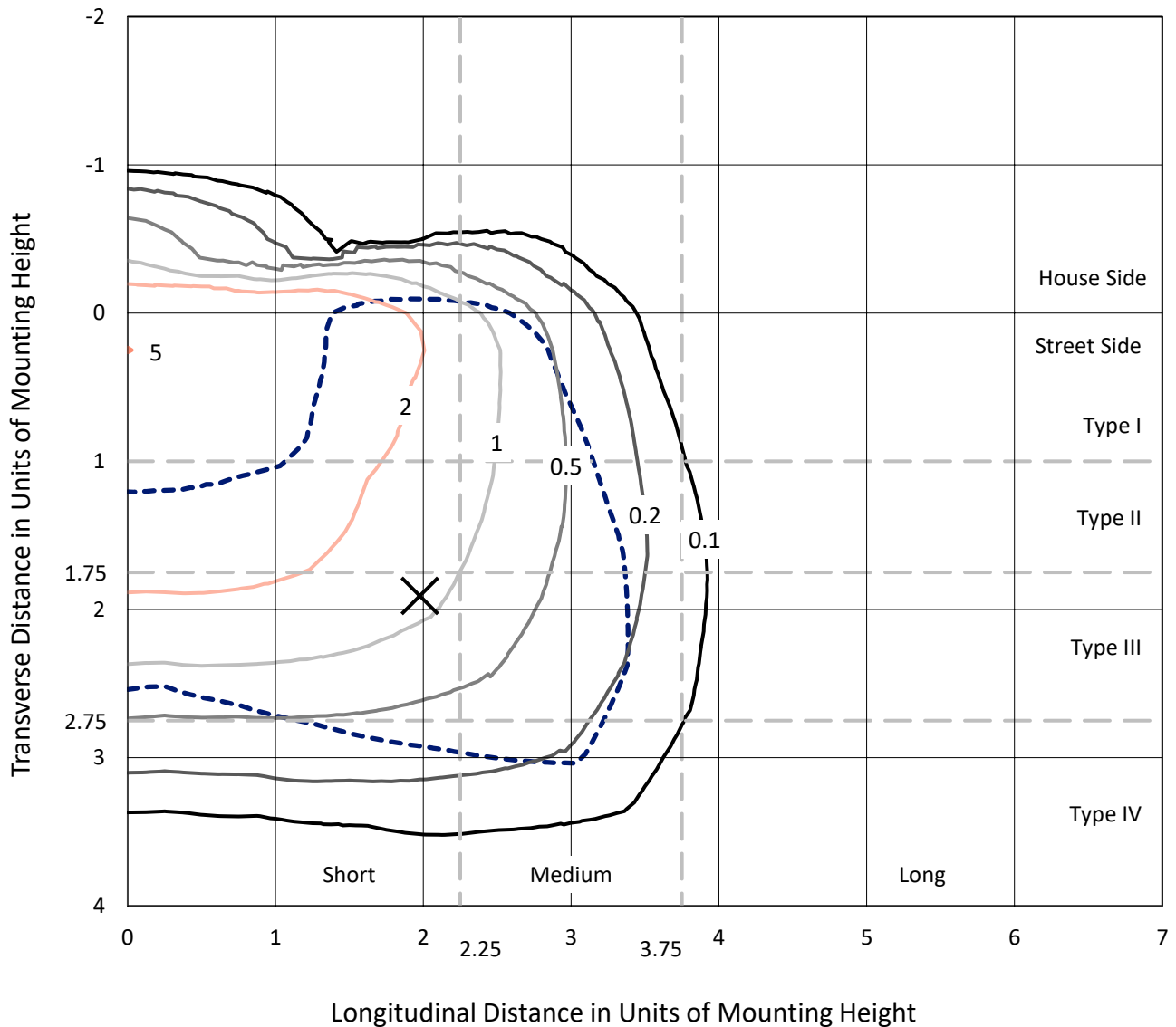
Lumens per Lamp: N/A
Luminaire Lumens: 22074.3 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

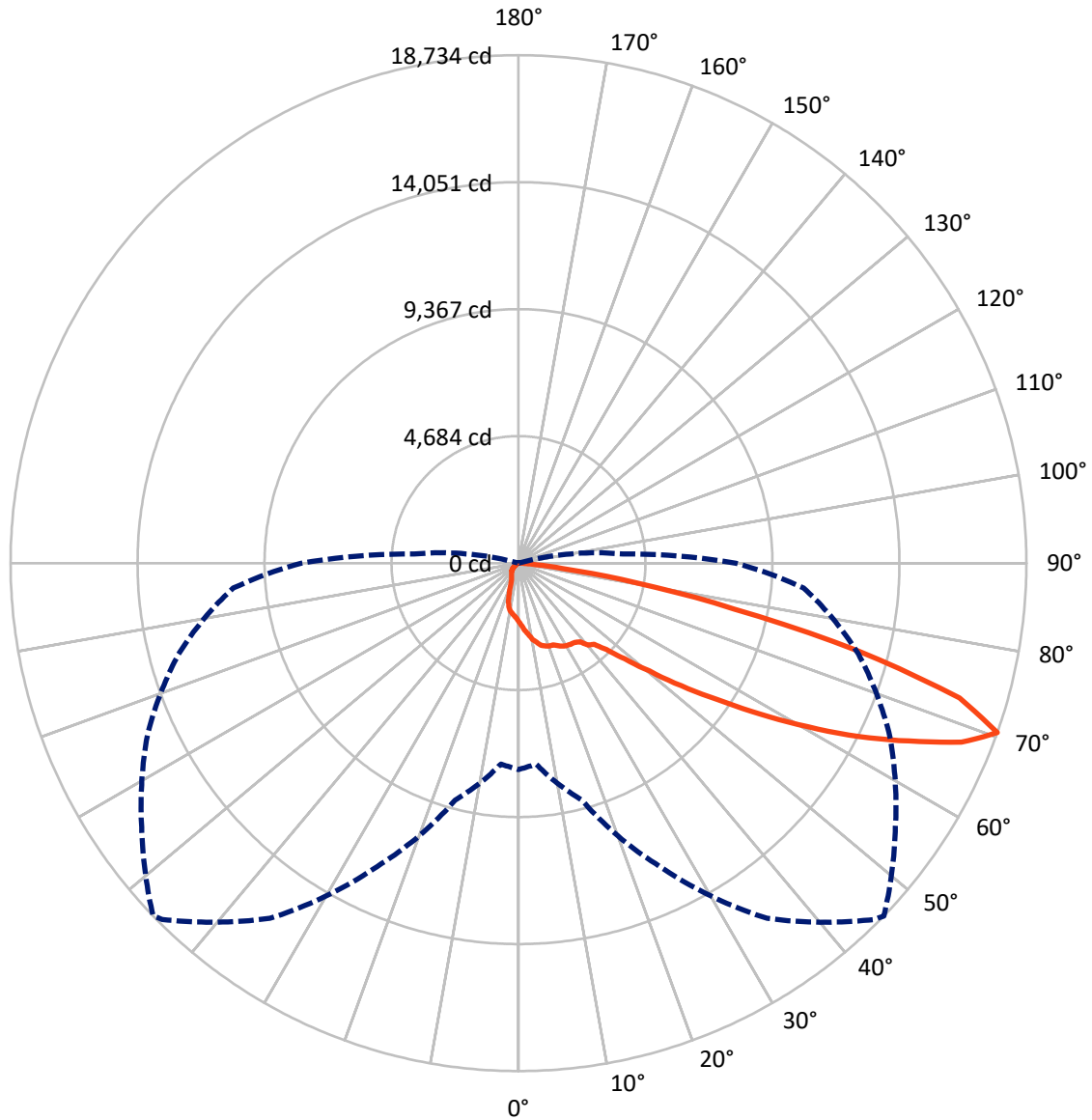
× Max cd
 - - - 1/2 Max cd



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	2196.5	0.0	2196.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	19877.8	0.0	19877.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	22074.3	0.0	22074.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.1	1.0
10°-20°	652.5	3.0
20°-30°	1045.2	4.7
30°-40°	1491.9	6.8
40°-50°	2576.1	11.7
50°-60°	4932.2	22.3
60°-70°	7303.8	33.1
70°-80°	3617.5	16.4
80°-90°	239.0	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°	22074.3	100.0
0°-180°	22074.3	100.0

Coefficient of Utilization



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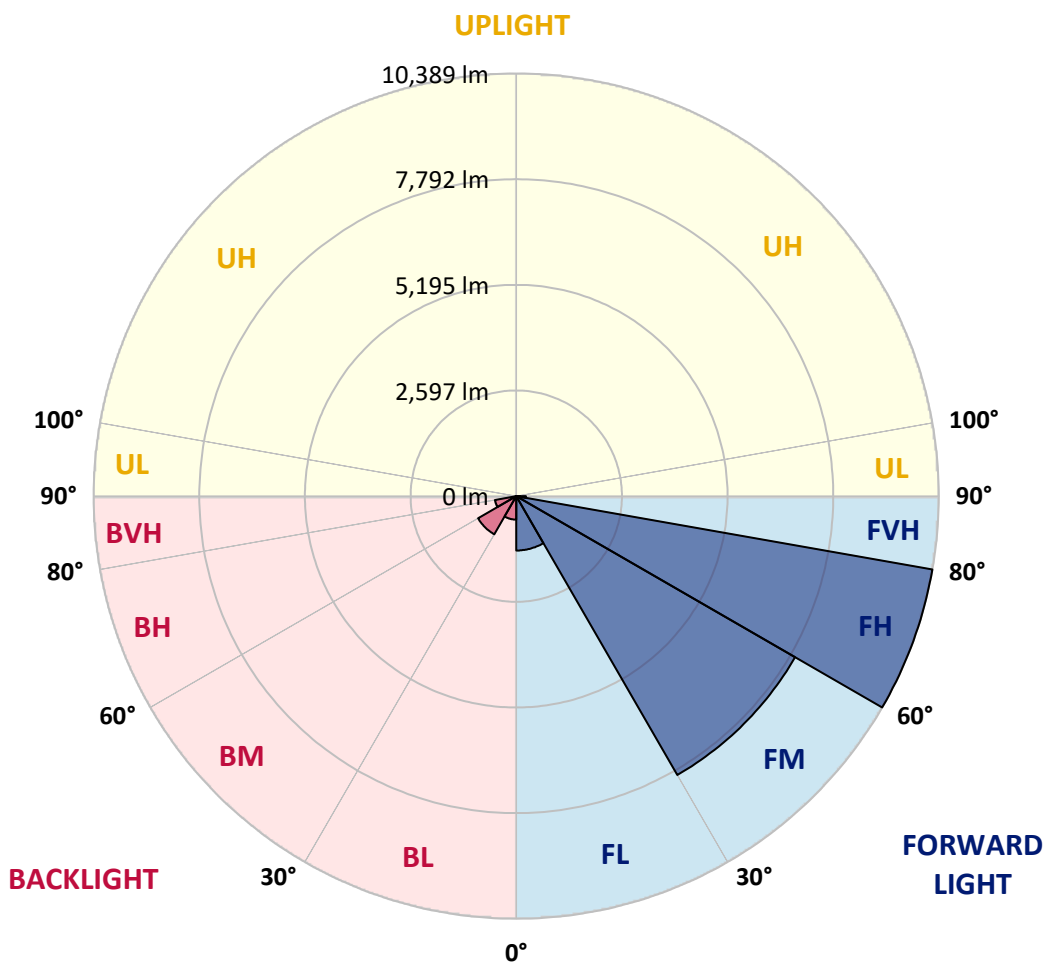
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1336.8	6.1			
FM (30°-60°)	7915.8	35.9			
FH (60°-80°)	10389.3	47.1			G4/12000
FVH (80°-90°)	236.0	1.1			G3/500
BL (0°-30°)	577.0	2.6	B2/1000		
BM (30°-60°)	1084.4	4.9	B2/2500		
BH (60°-80°)	532.0	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.0	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°	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0
2.5°	2418.0	2402.1	2376.7	2367.2	2341.8	2329.1	2310.0	2300.5	2265.5	2230.6	2208.3
5°	2713.5	2675.4	2688.1	2650.0	2567.4	2500.6	2497.5	2424.4	2344.9	2281.4	2195.6
7.5°	3012.2	2980.4	2932.8	2878.8	2786.6	2688.1	2659.5	2589.6	2478.4	2367.2	2252.8
10°	3237.8	3215.6	3174.3	3098.0	2970.9	2859.7	2862.9	2745.3	2627.7	2500.6	2344.9
12.5°	3377.6	3387.1	3326.8	3250.5	3139.3	2999.5	2996.3	2916.9	2783.4	2650.0	2465.7
15°	3517.4	3552.4	3460.2	3371.3	3228.3	3126.6	3145.7	3050.3	2920.1	2767.5	2564.2
17.5°	3539.7	3549.2	3530.1	3399.8	3295.0	3209.2	3212.4	3148.8	3050.3	2885.1	2710.3
20°	3501.5	3495.2	3472.9	3377.6	3307.7	3256.9	3260.0	3244.2	3190.1	3056.7	2818.4
22.5°	3390.3	3390.3	3361.7	3298.2	3266.4	3314.1	3275.9	3336.3	3279.1	3199.7	3002.7
25°	3301.3	3336.3	3320.4	3279.1	3291.8	3355.4	3374.4	3431.6	3422.1	3323.6	3129.8
27.5°	3396.7	3355.4	3364.9	3317.2	3364.9	3460.2	3469.8	3511.1	3507.9	3428.4	3244.2
30°	3460.2	3498.3	3425.3	3320.4	3371.3	3533.3	3526.9	3581.0	3606.4	3511.1	3352.2
32.5°	3663.6	3631.8	3571.4	3431.6	3438.0	3530.1	3558.7	3628.6	3644.5	3587.3	3457.0
35°	4079.8	4032.2	3768.4	3558.7	3526.9	3571.4	3590.5	3727.1	3755.7	3692.2	3568.3
37.5°	4721.7	4613.6	4295.9	3832.0	3689.0	3679.5	3679.5	3860.6	3968.6	3822.4	3733.5
40°	5639.9	5487.4	5144.3	4337.2	3901.9	3940.0	3978.1	4076.6	4063.9	3968.6	3949.5
42.5°	6809.2	6691.7	6319.9	5185.6	4308.6	4117.9	4086.2	4219.6	4419.8	4381.7	4369.0
45°	7784.7	7791.1	7552.7	6348.5	5010.8	4527.8	4550.1	4651.8	4988.6	4960.0	4956.8
47.5°	8496.4	8407.5	8372.5	7470.1	6033.9	5306.3	5274.5	5344.4	5782.9	5964.0	6046.6
50°	9144.6	9084.3	9001.7	8560.0	7263.6	6281.8	6250.0	6256.4	6926.8	7181.0	7384.3
52.5°	9948.5	10024.8	9751.5	9481.4	8855.5	7549.6	7514.6	7390.7	8223.2	8572.7	8814.2
55°	10939.9	10796.9	10488.7	10628.5	10377.5	8919.0	8855.5	8709.3	9700.7	9846.9	10101.0
57.5°	11159.1	11051.1	11368.8	11864.5	12106.0	10526.8	10501.4	10237.7	10943.1	10809.6	11527.7
60°	11705.6	11734.2	12175.9	13160.9	13580.3	12382.4	12258.5	11794.6	12147.3	12172.7	12938.5
62.5°	12268.1	12201.3	13189.5	14136.4	14781.4	14139.6	14098.3	13176.8	13577.2	13253.1	14266.7
65°	11855.0	11956.7	13370.6	14956.2	16338.3	15858.5	15823.6	14508.1	14727.4	14323.8	14806.8
67.5°	10387.0	10180.5	12160.0	14581.2	17139.0	17660.1	17622.0	15960.2	15375.6	14317.5	13685.2
70°	7613.1	7435.2	9049.3	12347.5	15992.0	18581.6	18734.1	16970.6	15111.9	12983.0	10558.6
72.5°	3730.3	3733.5	5071.2	8372.5	12652.5	16935.7	17012.0	15559.9	12983.0	9570.4	5979.9
75°	1102.6	1115.3	1877.9	4105.2	8178.7	12862.2	12948.0	11810.5	8998.5	4944.1	2039.9
77.5°	403.5	403.5	622.8	1541.1	4079.8	8118.3	8112.0	7250.9	4556.4	1674.5	476.6
80°	209.7	219.2	324.1	629.1	1766.7	4229.2	4388.0	3549.2	1731.7	705.4	139.8
82.5°	85.8	95.3	177.9	324.1	848.4	1483.9	1623.7	1391.7	753.1	492.5	63.5
85°	25.4	28.6	85.8	181.1	333.6	371.8	413.1	467.1	473.4	381.3	28.6
87.5°	3.2	3.2	35.0	60.4	73.1	79.4	92.1	92.1	241.5	266.9	15.9
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0
2.5°	2182.9	2167.0	2141.6	2084.4	2071.7	2030.4	2027.2	1989.1	2001.8	1976.4	1966.8
5°	2167.0	2132.1	2062.2	2017.7	1973.2	1944.6	1925.5	1909.6	1906.5	1893.7	1887.4
7.5°	2195.6	2147.9	2039.9	1970.0	1893.7	1868.3	1827.0	1823.8	1801.6	1779.4	1779.4
10°	2290.9	2205.1	2087.6	1970.0	1871.5	1788.9	1693.6	1623.7	1598.2	1541.1	1547.4
12.5°	2367.2	2290.9	2119.3	1998.6	1849.3	1661.8	1452.1	1290.0	1213.8	1140.7	1169.3
15°	2475.2	2364.0	2179.7	2005.0	1763.5	1439.4	1096.2	915.1	845.2	829.3	826.1
17.5°	2592.8	2475.2	2256.0	1989.1	1588.7	1112.1	807.1	702.2	714.9	734.0	730.8
20°	2723.1	2580.1	2313.2	1935.1	1312.3	807.1	660.9	657.7	676.8	705.4	711.7
22.5°	2859.7	2735.8	2383.1	1773.0	978.6	648.2	635.5	635.5	648.2	683.1	676.8
25°	3012.2	2847.0	2418.0	1522.0	702.2	597.4	603.7	616.4	622.8	651.4	654.6
27.5°	3129.8	2970.9	2427.6	1220.1	571.9	552.9	568.8	584.6	594.2	616.4	626.0
30°	3237.8	3126.6	2376.7	908.7	524.3	514.7	521.1	543.3	562.4	581.5	581.5
32.5°	3374.4	3215.6	2259.2	645.0	495.7	479.8	476.6	486.1	508.4	530.6	530.6
35°	3514.2	3364.9	2071.7	517.9	470.3	448.0	435.3	425.8	435.3	451.2	463.9
37.5°	3717.6	3590.5	1836.6	476.6	451.2	419.4	394.0	371.8	355.9	352.7	362.2
40°	4006.7	3844.7	1534.7	448.0	429.0	390.8	352.7	314.6	279.6	257.4	260.5
42.5°	4445.2	4219.6	1207.4	432.1	413.1	359.0	305.0	251.0	206.5	184.3	184.3
45°	5071.2	4715.3	886.5	416.2	394.0	320.9	251.0	187.5	143.0	130.3	133.5
47.5°	6014.9	5312.7	635.5	390.8	368.6	279.6	197.0	133.5	104.9	98.5	101.7
50°	7247.7	6021.2	495.7	362.2	336.8	235.1	146.2	98.5	82.6	79.4	82.6
52.5°	8540.9	6736.1	435.3	336.8	289.1	187.5	108.0	79.4	69.9	66.7	69.9
55°	9646.7	7196.9	378.1	298.7	232.0	139.8	85.8	69.9	60.4	50.8	50.8
57.5°	10765.1	7428.8	298.7	247.8	171.6	104.9	73.1	60.4	50.8	41.3	38.1
60°	11673.9	7594.1	212.9	184.3	120.7	82.6	63.5	54.0	41.3	31.8	28.6
62.5°	12271.2	7120.6	155.7	139.8	89.0	69.9	54.0	44.5	31.8	22.2	22.2
65°	11975.7	6466.1	120.7	98.5	66.7	54.0	44.5	31.8	22.2	12.7	9.5
67.5°	10746.1	5268.2	98.5	73.1	50.8	41.3	35.0	25.4	12.7	3.2	3.2
70°	8016.7	3860.6	79.4	54.0	41.3	31.8	25.4	15.9	6.4	3.2	0.0
72.5°	4384.9	2113.0	63.5	44.5	31.8	25.4	19.1	12.7	6.4	0.0	0.0
75°	1448.9	562.4	47.7	31.8	19.1	15.9	12.7	9.5	3.2	0.0	0.0
77.5°	349.5	146.2	38.1	28.6	15.9	9.5	6.4	3.2	3.2	0.0	0.0
80°	108.0	60.4	28.6	19.1	12.7	9.5	3.2	0.0	0.0	0.0	0.0
82.5°	44.5	28.6	12.7	12.7	9.5	3.2	0.0	0.0	0.0	0.0	0.0
85°	22.2	15.9	9.5	6.4	6.4	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	6.4	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)