

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: P483751

Luminaire Tested: **IFLD-S-SA6D-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483751
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

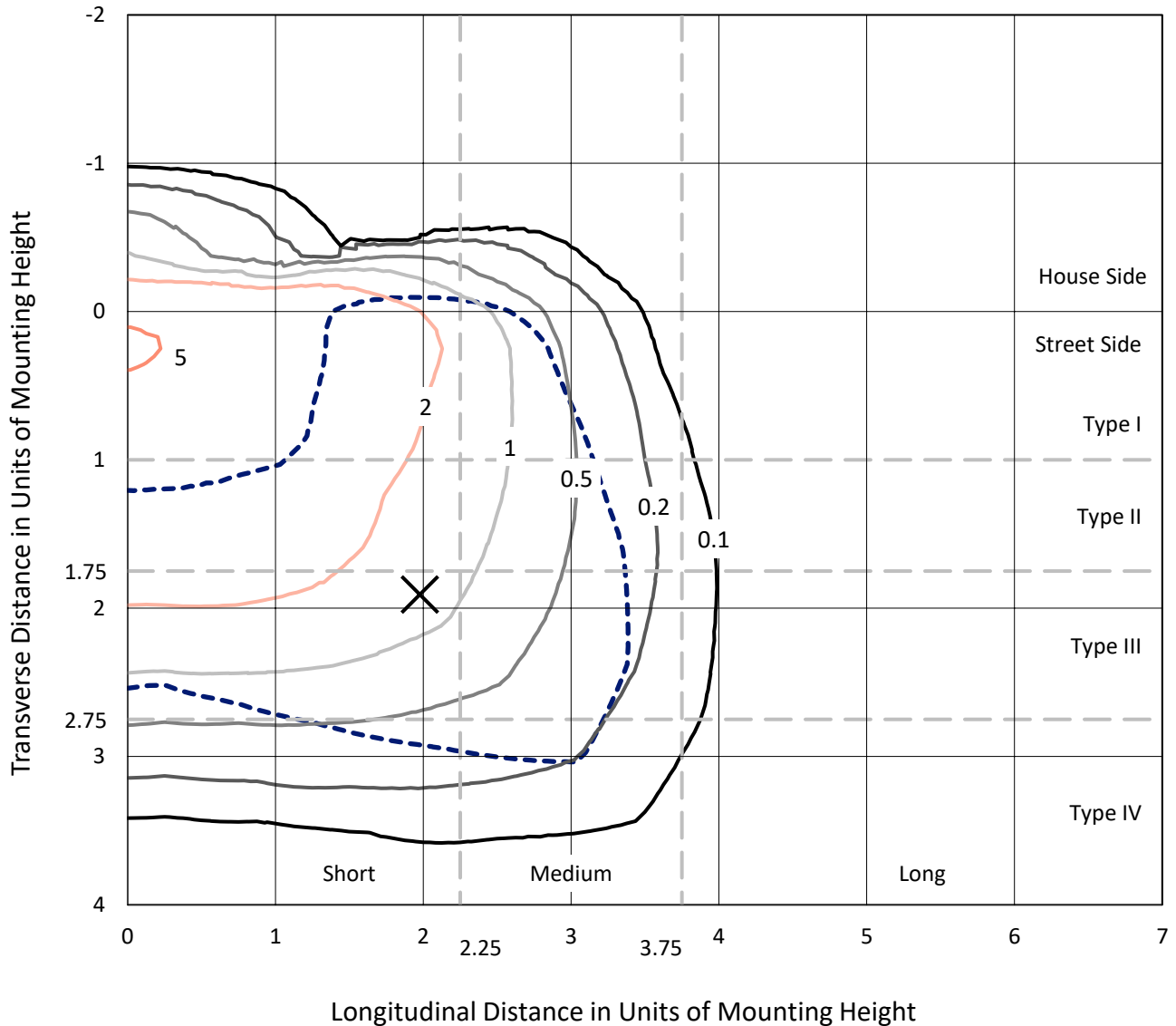
Lumens per Lamp: N/A
Luminaire Lumens: 24798.8 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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

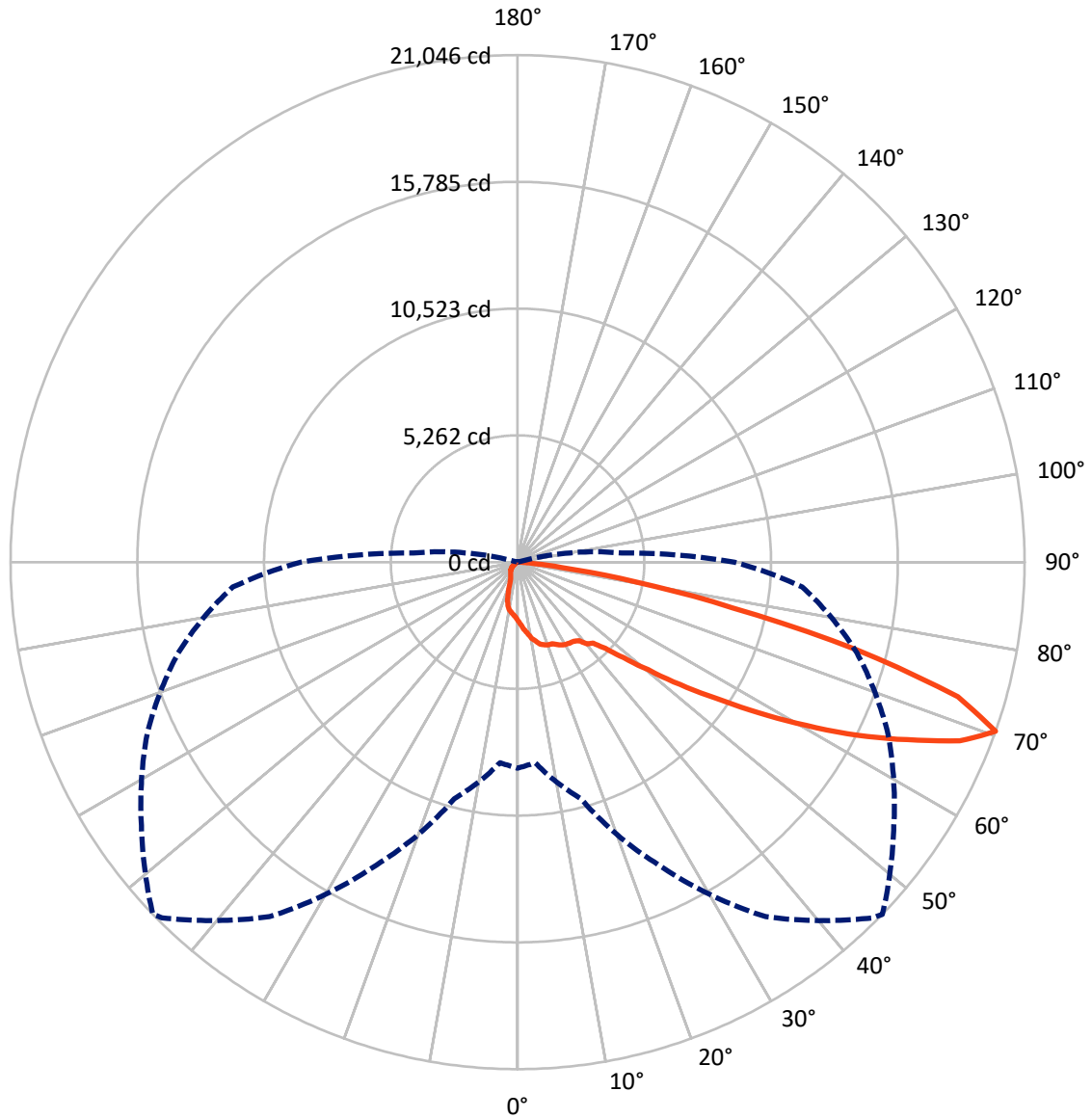
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2467.5	0.0	2467.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	22331.2	0.0	22331.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	24798.8	0.0	24798.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	1.0
10°-20°	733.1	3.0
20°-30°	1174.2	4.7
30°-40°	1676.0	6.8
40°-50°	2894.1	11.7
50°-60°	5540.9	22.3
60°-70°	8205.2	33.1
70°-80°	4064.0	16.4
80°-90°	268.5	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°	24798.8	100.0
0°-180°	24798.8	100.0

Coefficient of Utilization

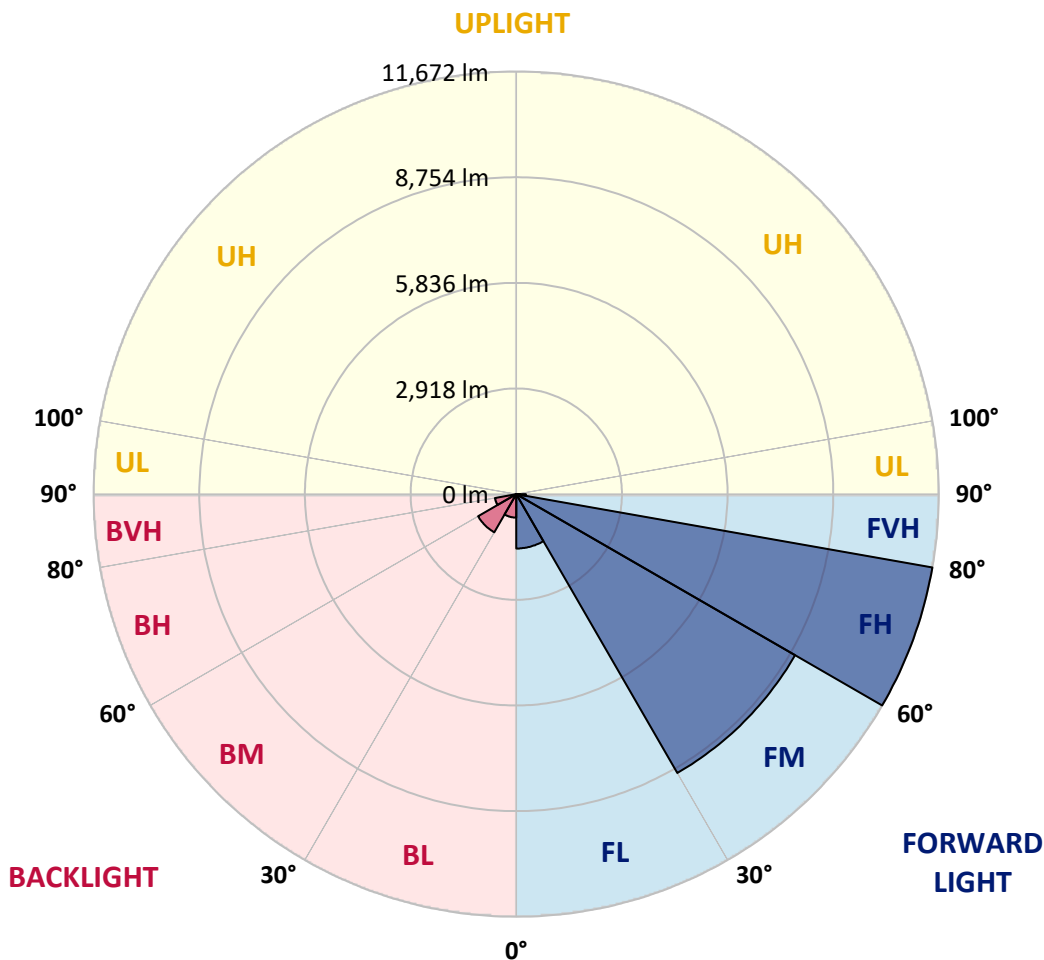


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1501.7	6.1			
FM (30°-60°)	8892.8	35.9			
FH (60°-80°)	11671.6	47.1			G4/12000
FVH (80°-90°)	265.1	1.1			G3/500
BL (0°-30°)	648.3	2.6	B2/1000		
BM (30°-60°)	1218.2	4.9	B2/2500		
BH (60°-80°)	597.6	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.4	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°	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5
2.5°	2716.5	2698.6	2670.1	2659.3	2630.8	2616.5	2595.1	2584.4	2545.1	2505.9	2480.9
5°	3048.4	3005.6	3019.9	2977.0	2884.2	2809.3	2805.7	2723.6	2634.4	2563.0	2466.6
7.5°	3384.0	3348.3	3294.7	3234.1	3130.5	3019.9	2987.8	2909.2	2784.3	2659.3	2530.8
10°	3637.4	3612.4	3566.0	3480.4	3337.6	3212.6	3216.2	3084.1	2952.1	2809.3	2634.4
12.5°	3794.5	3805.2	3737.4	3651.7	3526.8	3369.7	3366.1	3276.9	3127.0	2977.0	2770.0
15°	3951.5	3990.8	3887.3	3787.3	3626.7	3512.5	3533.9	3426.8	3280.5	3109.1	2880.7
17.5°	3976.5	3987.2	3965.8	3819.5	3701.7	3605.3	3608.9	3537.5	3426.8	3241.2	3044.9
20°	3933.7	3926.6	3901.6	3794.5	3715.9	3658.8	3662.4	3644.6	3583.9	3434.0	3166.2
22.5°	3808.8	3808.8	3776.6	3705.2	3669.5	3723.1	3680.3	3748.1	3683.8	3594.6	3373.3
25°	3708.8	3748.1	3730.2	3683.8	3698.1	3769.5	3790.9	3855.2	3844.5	3733.8	3516.1
27.5°	3815.9	3769.5	3780.2	3726.7	3780.2	3887.3	3898.0	3944.4	3940.8	3851.6	3644.6
30°	3887.3	3930.1	3848.0	3730.2	3787.3	3969.4	3962.3	4022.9	4051.5	3944.4	3765.9
32.5°	4115.7	4080.0	4012.2	3855.2	3862.3	3965.8	3997.9	4076.5	4094.3	4030.1	3883.7
35°	4583.4	4529.8	4233.5	3997.9	3962.3	4012.2	4033.6	4187.1	4219.3	4147.9	4008.7
37.5°	5304.4	5183.1	4826.1	4304.9	4144.3	4133.6	4133.6	4337.1	4458.4	4294.2	4194.3
40°	6336.0	6164.7	5779.2	4872.5	4383.5	4426.3	4469.1	4579.8	4565.5	4458.4	4437.0
42.5°	7649.6	7517.6	7099.9	5825.6	4840.4	4626.2	4590.5	4740.4	4965.3	4922.5	4908.2
45°	8745.5	8752.7	8484.9	7132.1	5629.3	5086.7	5111.7	5225.9	5604.3	5572.1	5568.6
47.5°	9545.1	9445.2	9405.9	8392.1	6778.7	5961.2	5925.5	6004.1	6496.7	6700.1	6792.9
50°	10273.3	10205.5	10112.7	9616.5	8160.1	7057.1	7021.4	7028.5	7781.7	8067.3	8295.7
52.5°	11176.4	11262.1	10955.1	10651.7	9948.5	8481.4	8442.1	8302.9	9238.1	9630.8	9902.1
55°	12290.1	12129.5	11783.2	11940.3	11658.3	10019.9	9948.5	9784.3	10898.0	11062.2	11347.7
57.5°	12536.4	12415.1	12772.0	13328.9	13600.2	11826.1	11797.5	11501.2	12293.7	12143.8	12950.5
60°	13150.4	13182.5	13678.7	14785.3	15256.5	13910.7	13771.5	13250.3	13646.6	13675.1	14535.4
62.5°	13782.2	13707.3	14817.4	15881.1	16605.8	15884.7	15838.3	14803.1	15252.9	14888.8	16027.5
65°	13318.2	13432.4	15020.9	16802.1	18354.9	17815.9	17776.6	16298.8	16545.1	16091.7	16634.3
67.5°	11669.0	11437.0	13660.8	16380.9	19254.4	19839.8	19797.0	17930.1	17273.3	16084.6	15374.3
70°	8552.8	8352.9	10166.2	13871.5	17965.8	20875.0	21046.3	19065.2	16977.0	14585.4	11861.8
72.5°	4190.7	4194.3	5697.1	9405.9	14214.1	19025.9	19111.6	17480.3	14585.4	10751.6	6718.0
75°	1238.6	1252.9	2109.6	4611.9	9188.1	14449.7	14546.1	13268.2	10109.1	5554.3	2291.7
77.5°	453.3	453.3	699.6	1731.3	4583.4	9120.3	9113.2	8145.8	5118.8	1881.2	535.4
80°	235.6	246.3	364.1	706.8	1984.7	4751.1	4929.6	3987.2	1945.4	792.5	157.1
82.5°	96.4	107.1	199.9	364.1	953.1	1667.0	1824.1	1563.5	846.0	553.3	71.4
85°	28.6	32.1	96.4	203.5	374.8	417.6	464.0	524.7	531.9	428.4	32.1
87.5°	3.6	3.6	39.3	67.8	82.1	89.2	103.5	103.5	271.3	299.8	17.8
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°	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5
2.5°	2452.3	2434.5	2405.9	2341.7	2327.4	2281.0	2277.4	2234.6	2248.8	2220.3	2209.6
5°	2434.5	2395.2	2316.7	2266.7	2216.7	2184.6	2163.2	2145.3	2141.8	2127.5	2120.3
7.5°	2466.6	2413.0	2291.7	2213.1	2127.5	2098.9	2052.5	2048.9	2024.0	1999.0	1999.0
10°	2573.7	2477.3	2345.2	2213.1	2102.5	2009.7	1902.6	1824.1	1795.5	1731.3	1738.4
12.5°	2659.3	2573.7	2380.9	2245.3	2077.5	1866.9	1631.3	1449.3	1363.6	1281.5	1313.6
15°	2780.7	2655.8	2448.7	2252.4	1981.1	1617.0	1231.5	1028.0	949.5	931.7	928.1
17.5°	2912.8	2780.7	2534.4	2234.6	1784.8	1249.4	906.7	788.9	803.2	824.6	821.0
20°	3059.1	2898.5	2598.7	2173.9	1474.2	906.7	742.5	738.9	760.3	792.5	799.6
22.5°	3212.6	3073.4	2677.2	1991.8	1099.4	728.2	713.9	713.9	728.2	767.5	760.3
25°	3384.0	3198.4	2716.5	1709.8	788.9	671.1	678.2	692.5	699.6	731.8	735.3
27.5°	3516.1	3337.6	2727.2	1370.7	642.5	621.1	639.0	656.8	667.5	692.5	703.2
30°	3637.4	3512.5	2670.1	1020.9	589.0	578.3	585.4	610.4	631.8	653.2	653.2
32.5°	3790.9	3612.4	2538.0	724.6	556.9	539.0	535.4	546.1	571.1	596.1	596.1
35°	3948.0	3780.2	2327.4	581.8	528.3	503.3	489.0	478.3	489.0	506.9	521.2
37.5°	4176.4	4033.6	2063.2	535.4	506.9	471.2	442.6	417.6	399.8	396.2	406.9
40°	4501.3	4319.2	1724.1	503.3	481.9	439.1	396.2	353.4	314.1	289.1	292.7
42.5°	4993.9	4740.4	1356.4	485.5	464.0	403.4	342.7	282.0	232.0	207.0	207.0
45°	5697.1	5297.3	995.9	467.6	442.6	360.5	282.0	210.6	160.6	146.4	149.9
47.5°	6757.2	5968.4	713.9	439.1	414.1	314.1	221.3	149.9	117.8	110.7	114.2
50°	8142.2	6764.4	556.9	406.9	378.4	264.2	164.2	110.7	92.8	89.2	92.8
52.5°	9595.1	7567.5	489.0	378.4	324.8	210.6	121.4	89.2	78.5	75.0	78.5
55°	10837.3	8085.1	424.8	335.5	260.6	157.1	96.4	78.5	67.8	57.1	57.1
57.5°	12093.8	8345.7	335.5	278.4	192.8	117.8	82.1	67.8	57.1	46.4	42.8
60°	13114.7	8531.3	239.2	207.0	135.6	92.8	71.4	60.7	46.4	35.7	32.1
62.5°	13785.8	7999.5	174.9	157.1	99.9	78.5	60.7	50.0	35.7	25.0	25.0
65°	13453.8	7264.1	135.6	110.7	75.0	60.7	50.0	35.7	25.0	14.3	10.7
67.5°	12072.4	5918.4	110.7	82.1	57.1	46.4	39.3	28.6	14.3	3.6	3.6
70°	9006.1	4337.1	89.2	60.7	46.4	35.7	28.6	17.8	7.1	3.6	0.0
72.5°	4926.0	2373.8	71.4	50.0	35.7	28.6	21.4	14.3	7.1	0.0	0.0
75°	1627.7	631.8	53.5	35.7	21.4	17.8	14.3	10.7	3.6	0.0	0.0
77.5°	392.7	164.2	42.8	32.1	17.8	10.7	7.1	3.6	3.6	0.0	0.0
80°	121.4	67.8	32.1	21.4	14.3	10.7	3.6	0.0	0.0	0.0	0.0
82.5°	50.0	32.1	14.3	14.3	10.7	3.6	0.0	0.0	0.0	0.0	0.0
85°	25.0	17.8	10.7	7.1	7.1	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	17.8	7.1	3.6	3.6	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)