

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: P483478

Luminaire Tested: **IFLD-S-SA6D-722-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483478
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-722-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

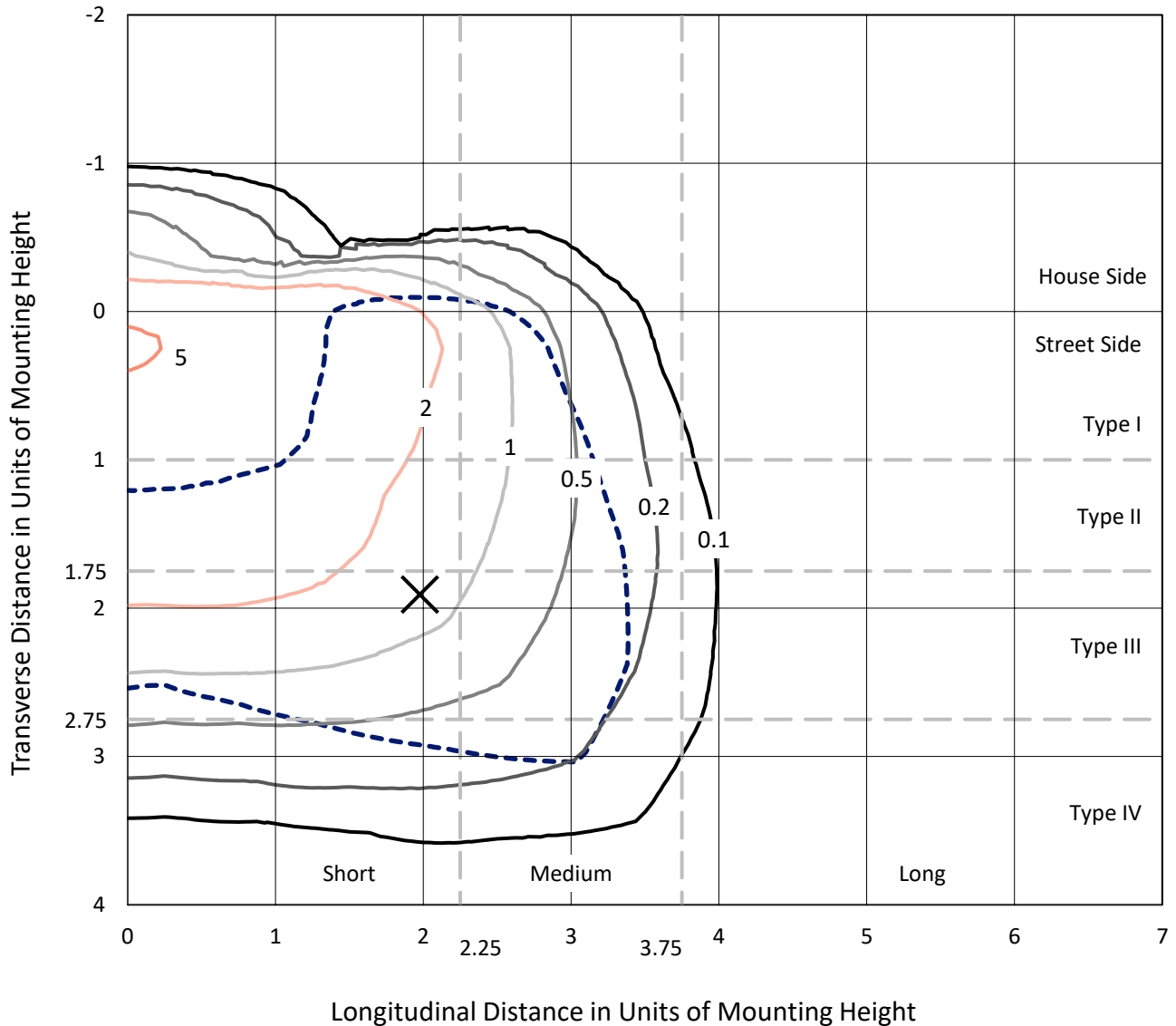
Lumens per Lamp: N/A
Luminaire Lumens: 24849.3 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

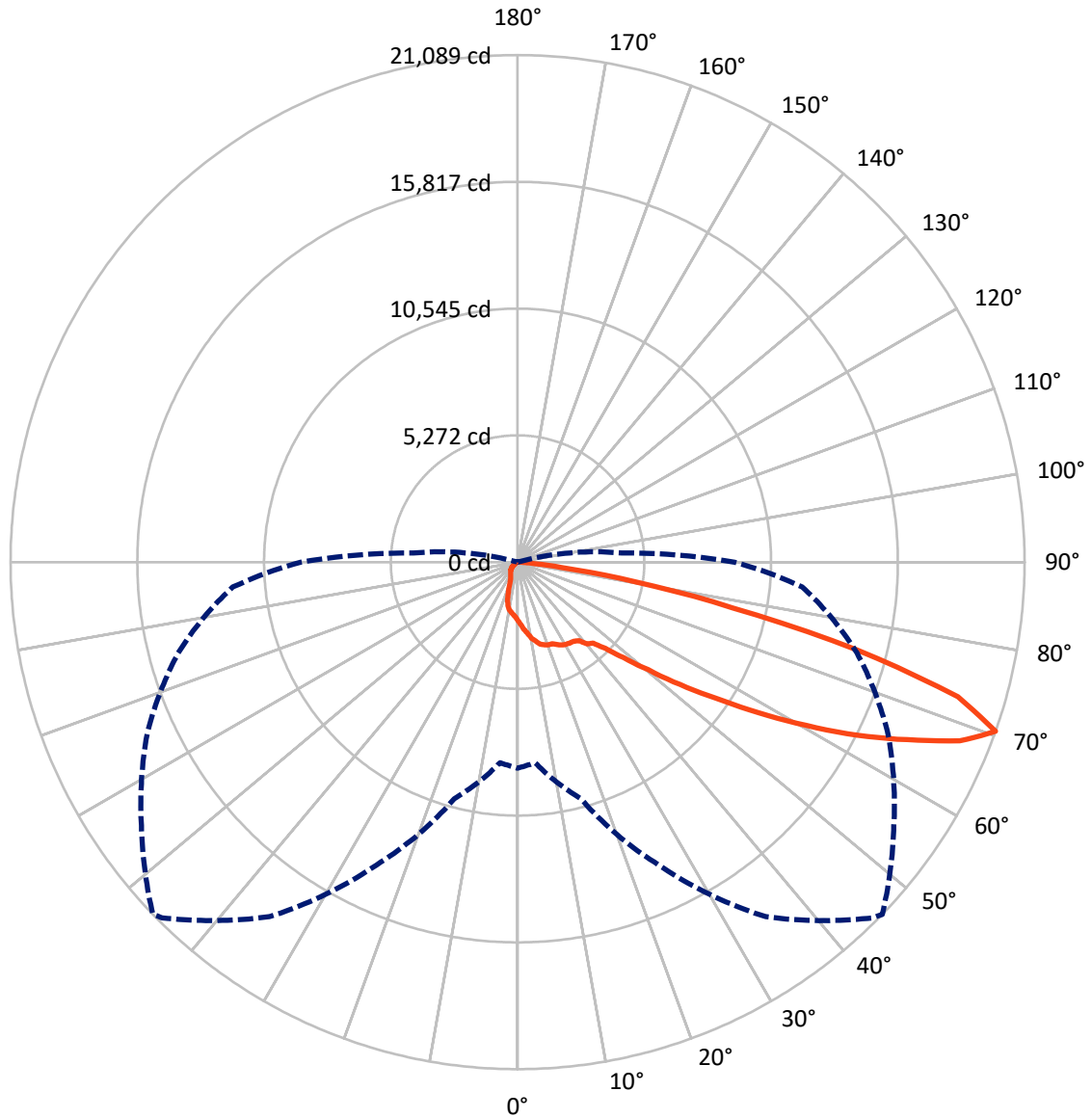
× Max cd
 - - - 1/2 Max cd



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	2472.6	0.0	2472.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	22376.8	0.0	22376.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	24849.3	0.0	24849.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	1.0
10°-20°	734.6	3.0
20°-30°	1176.6	4.7
30°-40°	1679.4	6.8
40°-50°	2900.0	11.7
50°-60°	5552.2	22.3
60°-70°	8222.0	33.1
70°-80°	4072.3	16.4
80°-90°	269.1	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°	24849.3	100.0
0°-180°	24849.3	100.0



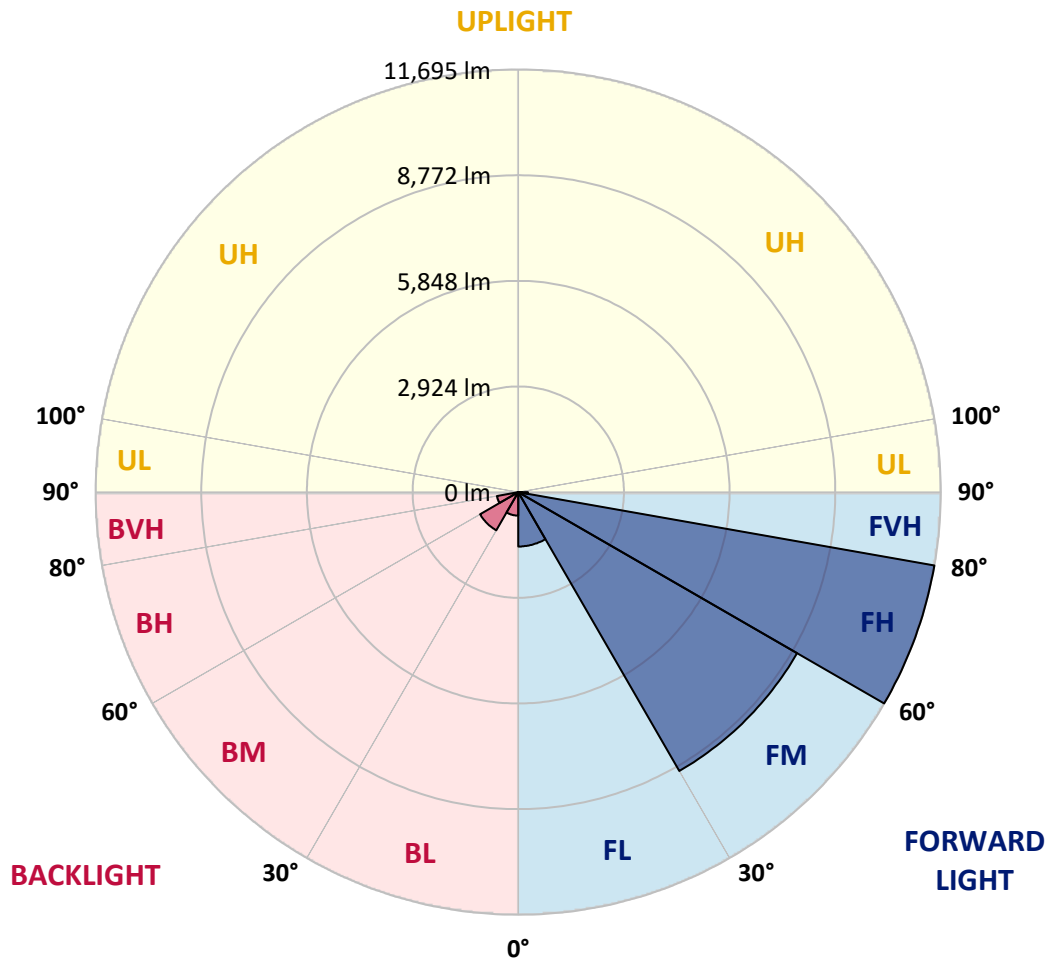
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1504.8	6.1			
FM (30°-60°)	8910.9	35.9			
FH (60°-80°)	11695.4	47.1			G4/12000
FVH (80°-90°)	265.7	1.1			G3/500
BL (0°-30°)	649.6	2.6	B2/1000		
BM (30°-60°)	1220.7	4.9	B2/2500		
BH (60°-80°)	598.8	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°	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4
2.5°	2722.0	2704.1	2675.5	2664.8	2636.2	2621.9	2600.4	2589.7	2550.3	2511.0	2485.9
5°	3054.7	3011.7	3026.0	2983.1	2890.1	2815.0	2811.4	2729.2	2639.7	2568.2	2471.6
7.5°	3390.9	3355.1	3301.5	3240.7	3136.9	3026.0	2993.8	2915.2	2790.0	2664.8	2536.0
10°	3644.8	3619.8	3573.3	3487.5	3344.4	3219.2	3222.8	3090.4	2958.1	2815.0	2639.7
12.5°	3802.2	3813.0	3745.0	3659.1	3534.0	3376.6	3373.0	3283.6	3133.3	2983.1	2775.7
15°	3959.6	3999.0	3895.2	3795.1	3634.1	3519.7	3541.1	3433.8	3287.2	3115.5	2886.5
17.5°	3984.6	3995.4	3973.9	3827.3	3709.2	3612.6	3616.2	3544.7	3433.8	3247.8	3051.1
20°	3941.7	3934.6	3909.5	3802.2	3723.5	3666.3	3669.9	3652.0	3591.2	3441.0	3172.7
22.5°	3816.5	3816.5	3784.3	3712.8	3677.0	3730.7	3687.8	3755.7	3691.3	3601.9	3380.2
25°	3716.4	3755.7	3737.8	3691.3	3705.6	3777.2	3798.6	3863.0	3852.3	3741.4	3523.2
27.5°	3823.7	3777.2	3787.9	3734.3	3787.9	3895.2	3906.0	3952.5	3948.9	3859.5	3652.0
30°	3895.2	3938.1	3855.9	3737.8	3795.1	3977.5	3970.3	4031.1	4059.8	3952.5	3773.6
32.5°	4124.1	4088.4	4020.4	3863.0	3870.2	3973.9	4006.1	4084.8	4102.7	4038.3	3891.6
35°	4592.7	4539.1	4242.2	4006.1	3970.3	4020.4	4041.9	4195.7	4227.9	4156.3	4016.8
37.5°	5315.2	5193.6	4835.9	4313.7	4152.8	4142.0	4142.0	4345.9	4467.5	4303.0	4202.8
40°	6349.0	6177.3	5791.0	4882.4	4392.4	4435.3	4478.3	4589.1	4574.8	4467.5	4446.1
42.5°	7665.3	7532.9	7114.4	5837.5	4850.2	4635.6	4599.9	4750.1	4975.4	4932.5	4918.2
45°	8763.4	8770.5	8502.2	7146.6	5640.7	5097.1	5122.1	5236.6	5615.7	5583.5	5579.9
47.5°	9564.6	9464.4	9425.1	8409.2	6792.5	5973.4	5937.6	6016.3	6509.9	6713.8	6806.8
50°	10294.3	10226.3	10133.3	9636.1	8176.7	7071.5	7035.7	7042.9	7797.6	8083.7	8312.7
52.5°	11199.2	11285.1	10977.4	10673.4	9968.8	8498.7	8459.3	8319.8	9257.0	9650.4	9922.3
55°	12315.2	12154.2	11807.3	11964.7	11682.1	10040.3	9968.8	9804.2	10920.2	11084.8	11370.9
57.5°	12562.0	12440.4	12798.1	13356.1	13627.9	11850.2	11821.6	11524.7	12318.8	12168.5	12976.9
60°	13177.2	13209.4	13706.6	14815.4	15287.6	13939.1	13799.6	13277.4	13674.4	13703.0	14565.1
62.5°	13810.3	13735.2	14847.6	15913.5	16639.6	15917.1	15870.6	14833.3	15284.0	14919.2	16060.2
65°	13345.3	13459.8	15051.5	16836.4	18392.3	17852.2	17812.9	16332.0	16578.8	16124.6	16668.3
67.5°	11692.8	11460.3	13688.7	16414.3	19293.7	19880.3	19837.4	17966.7	17308.5	16117.4	15405.6
70°	8570.2	8369.9	10187.0	13899.8	18002.4	20917.6	21089.3	19104.1	17011.6	14615.1	11886.0
72.5°	4199.3	4202.8	5708.7	9425.1	14243.1	19064.8	19150.6	17516.0	14615.1	10773.6	6731.7
75°	1241.2	1255.5	2113.9	4621.3	9206.9	14479.2	14575.8	13295.3	10129.7	5565.6	2296.4
77.5°	454.3	454.3	701.1	1734.8	4592.7	9138.9	9131.8	8162.4	5129.2	1885.0	536.5
80°	236.1	246.8	364.8	708.2	1988.7	4760.8	4939.7	3995.4	1949.4	794.1	157.4
82.5°	96.6	107.3	200.3	364.8	955.0	1670.4	1827.8	1566.7	847.7	554.4	71.5
85°	28.6	32.2	96.6	203.9	375.6	418.5	465.0	525.8	533.0	429.2	32.2
87.5°	3.6	3.6	39.3	68.0	82.3	89.4	103.7	103.7	271.8	300.5	17.9
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°	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4
2.5°	2457.3	2439.4	2410.8	2346.4	2332.1	2285.6	2282.0	2239.1	2253.4	2224.8	2214.1
5°	2439.4	2400.1	2321.4	2271.3	2221.2	2189.1	2167.6	2149.7	2146.1	2131.8	2124.7
7.5°	2471.6	2418.0	2296.4	2217.7	2131.8	2103.2	2056.7	2053.1	2028.1	2003.1	2003.1
10°	2578.9	2482.4	2350.0	2217.7	2106.8	2013.8	1906.5	1827.8	1799.2	1734.8	1741.9
12.5°	2664.8	2578.9	2385.8	2249.9	2081.7	1870.7	1634.6	1452.2	1366.4	1284.1	1316.3
15°	2786.4	2661.2	2453.7	2257.0	1985.2	1620.3	1234.0	1030.1	951.5	933.6	930.0
17.5°	2918.7	2786.4	2539.6	2239.1	1788.4	1251.9	908.5	790.5	804.8	826.3	822.7
20°	3065.4	2904.4	2604.0	2178.3	1477.3	908.5	744.0	740.4	761.9	794.1	801.2
22.5°	3219.2	3079.7	2682.7	1995.9	1101.7	729.7	715.4	715.4	729.7	769.0	761.9
25°	3390.9	3204.9	2722.0	1713.3	790.5	672.5	679.6	693.9	701.1	733.3	736.8
27.5°	3523.2	3344.4	2732.7	1373.5	643.8	622.4	640.3	658.1	668.9	693.9	704.6
30°	3644.8	3519.7	2675.5	1023.0	590.2	579.5	586.6	611.6	633.1	654.6	654.6
32.5°	3798.6	3619.8	2543.2	726.1	558.0	540.1	536.5	547.3	572.3	597.3	597.3
35°	3956.0	3787.9	2332.1	583.0	529.4	504.3	490.0	479.3	490.0	507.9	522.2
37.5°	4185.0	4041.9	2067.4	536.5	507.9	472.1	443.5	418.5	400.6	397.0	407.8
40°	4510.4	4328.0	1727.6	504.3	482.9	440.0	397.0	354.1	314.8	289.7	293.3
42.5°	5004.1	4750.1	1359.2	486.5	465.0	404.2	343.4	282.6	232.5	207.5	207.5
45°	5708.7	5308.1	997.9	468.6	443.5	361.3	282.6	211.0	161.0	146.7	150.2
47.5°	6771.0	5980.5	715.4	440.0	414.9	314.8	221.8	150.2	118.0	110.9	114.5
50°	8158.9	6778.2	558.0	407.8	379.1	264.7	164.5	110.9	93.0	89.4	93.0
52.5°	9614.7	7583.0	490.0	379.1	325.5	211.0	121.6	89.4	78.7	75.1	78.7
55°	10859.4	8101.6	425.6	336.2	261.1	157.4	96.6	78.7	68.0	57.2	57.2
57.5°	12118.5	8362.7	336.2	279.0	193.2	118.0	82.3	68.0	57.2	46.5	42.9
60°	13141.5	8548.7	239.7	207.5	135.9	93.0	71.5	60.8	46.5	35.8	32.2
62.5°	13813.9	8015.8	175.3	157.4	100.2	78.7	60.8	50.1	35.8	25.0	25.0
65°	13481.3	7279.0	135.9	110.9	75.1	60.8	50.1	35.8	25.0	14.3	10.7
67.5°	12097.0	5930.5	110.9	82.3	57.2	46.5	39.3	28.6	14.3	3.6	3.6
70°	9024.5	4345.9	89.4	60.8	46.5	35.8	28.6	17.9	7.2	3.6	0.0
72.5°	4936.1	2378.6	71.5	50.1	35.8	28.6	21.5	14.3	7.2	0.0	0.0
75°	1631.1	633.1	53.7	35.8	21.5	17.9	14.3	10.7	3.6	0.0	0.0
77.5°	393.5	164.5	42.9	32.2	17.9	10.7	7.2	3.6	3.6	0.0	0.0
80°	121.6	68.0	32.2	21.5	14.3	10.7	3.6	0.0	0.0	0.0	0.0
82.5°	50.1	32.2	14.3	14.3	10.7	3.6	0.0	0.0	0.0	0.0	0.0
85°	25.0	17.9	10.7	7.2	7.2	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	17.9	7.2	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)