

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: P483790

Luminaire Tested: **IFLD-S-SA6D-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483790
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

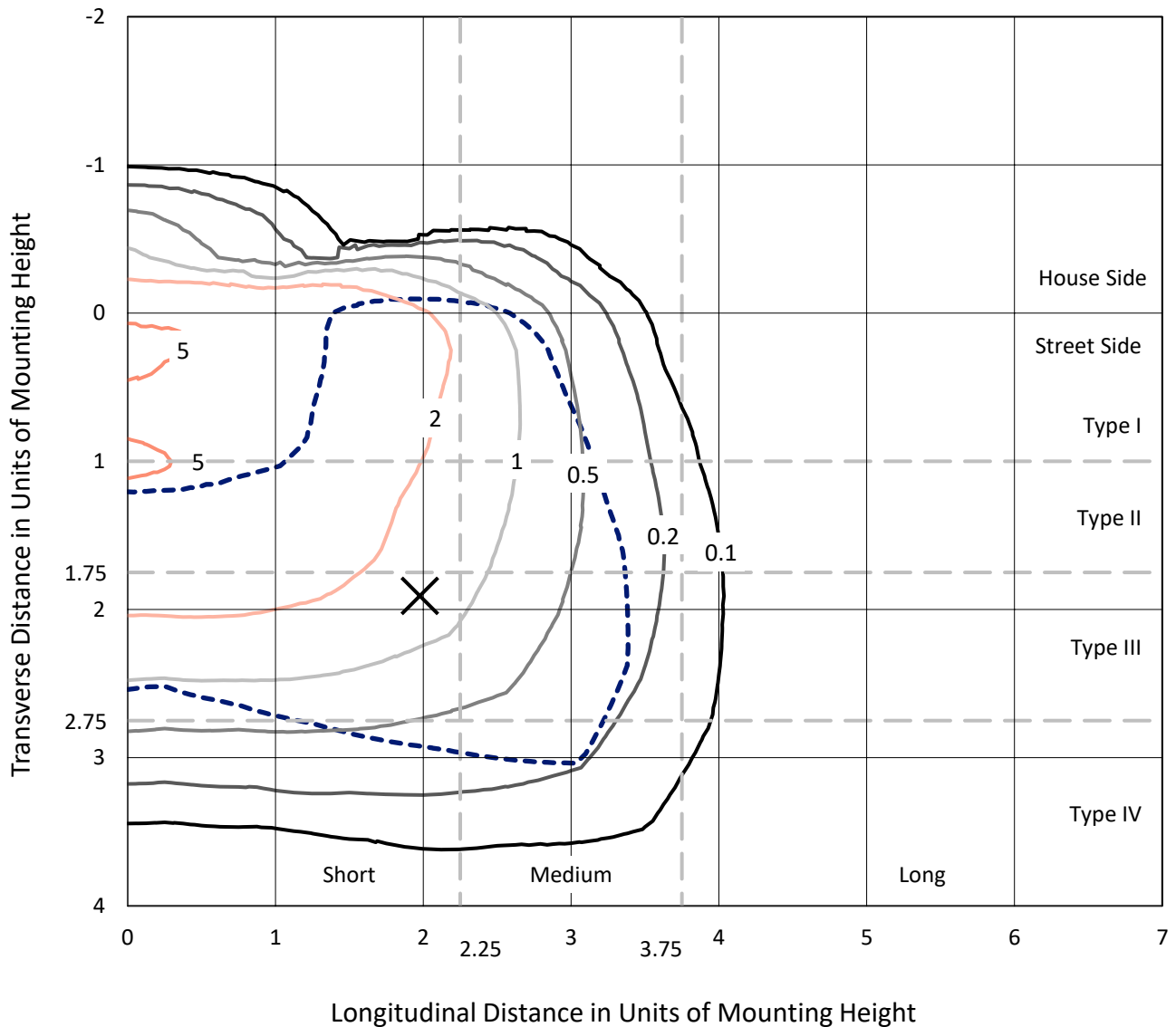
Lumens per Lamp: N/A
Luminaire Lumens: 26806 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

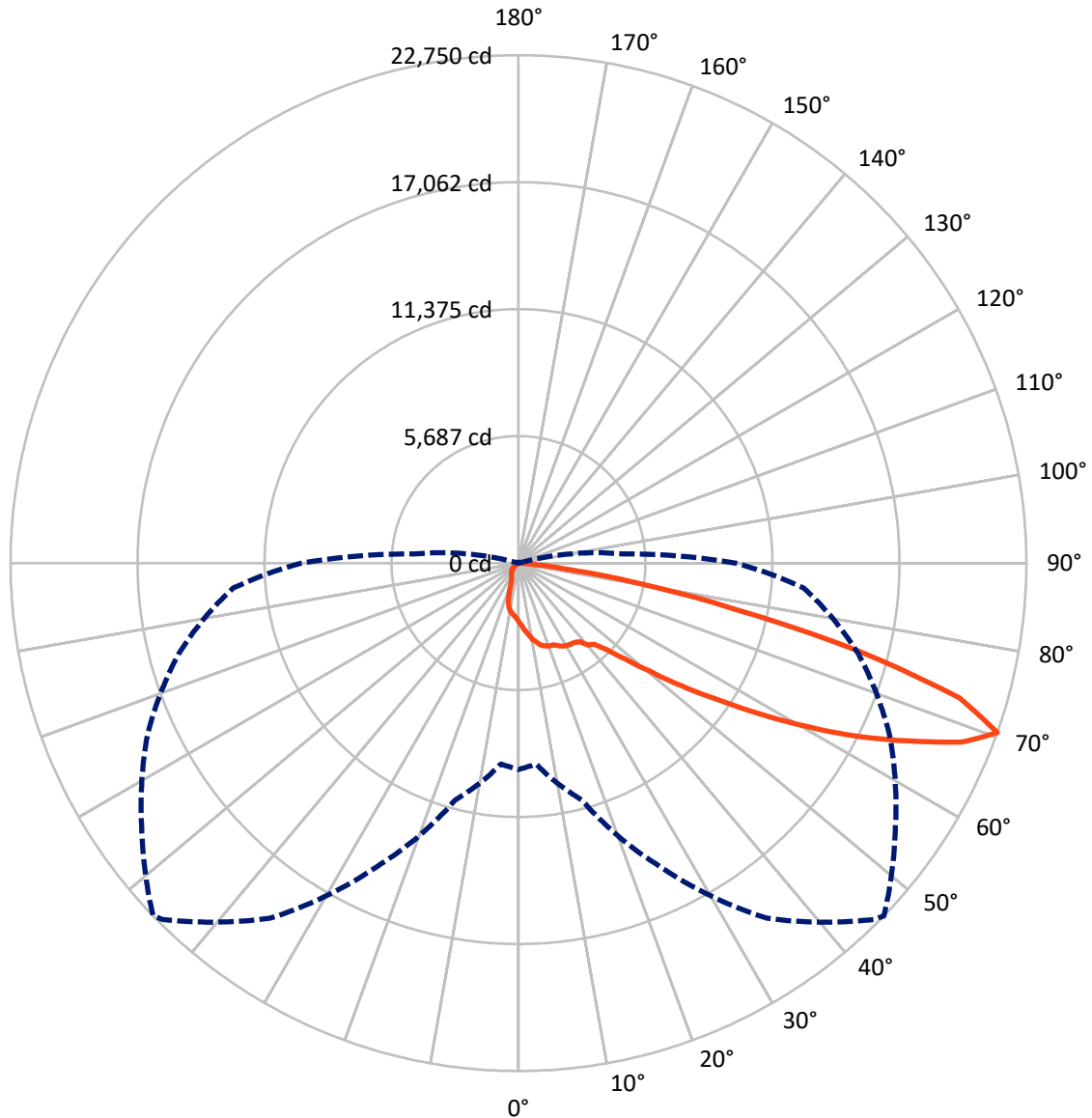
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2667.3	0.0	2667.3
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	24138.7	0.0	24138.7
	% Fixture	90.0	0.0	90.0
Total	Lumens	26806.0	0.0	26806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	1.0
10°-20°	792.4	3.0
20°-30°	1269.3	4.7
30°-40°	1811.7	6.8
40°-50°	3128.3	11.7
50°-60°	5989.4	22.3
60°-70°	8869.4	33.1
70°-80°	4392.9	16.4
80°-90°	290.3	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°	26806.0	100.0
0°-180°	26806.0	100.0

Coefficient of Utilization



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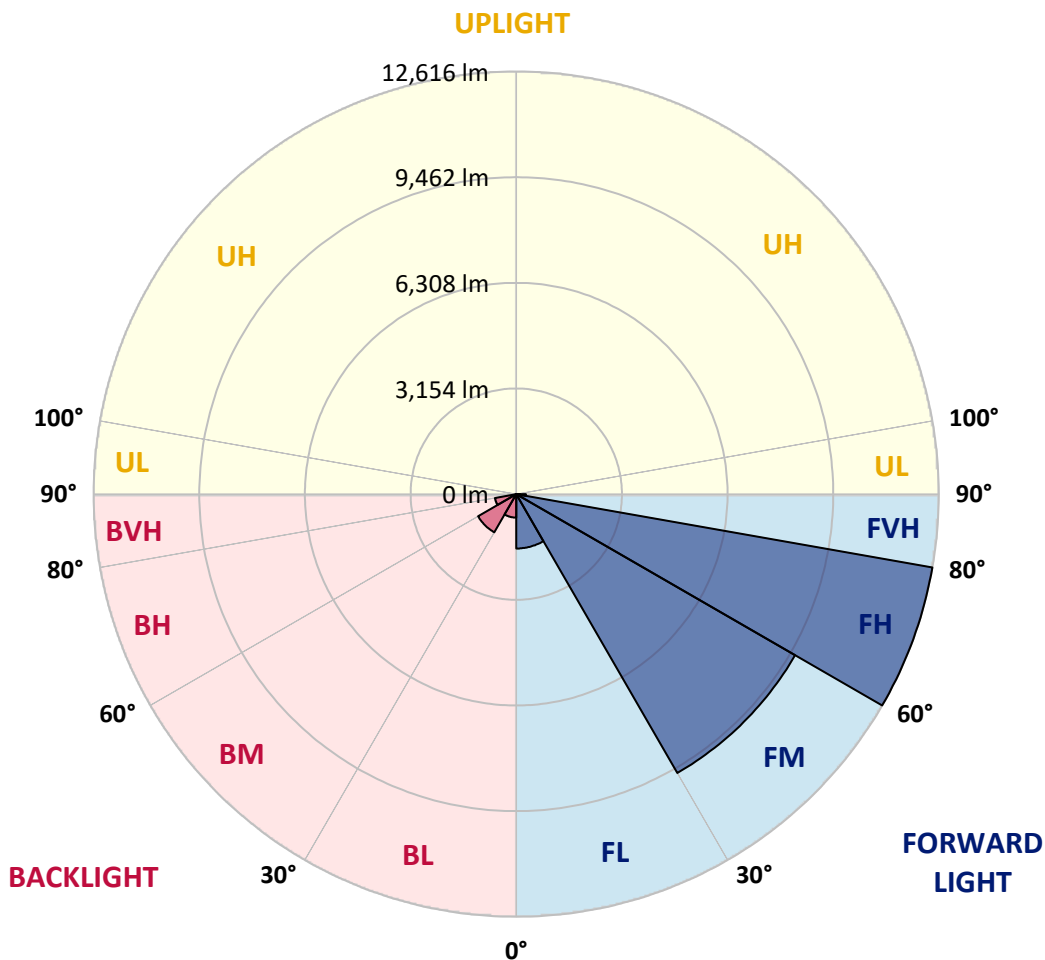
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1623.3	6.1			
FM (30°-60°)	9612.6	35.9			
FH (60°-80°)	12616.3	47.1			G5
FVH (80°-90°)	286.6	1.1			G3/500
BL (0°-30°)	700.7	2.6	B2/1000		
BM (30°-60°)	1316.8	4.9	B2/2500		
BH (60°-80°)	646.0	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.7	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2631.5	2631.5	2631.5	2631.5	2631.5	2631.5	2631.5	2631.5	2631.5	2631.5	2631.5
2.5°	2936.3	2917.0	2886.2	2874.6	2843.7	2828.3	2805.1	2793.6	2751.1	2708.7	2681.7
5°	3295.2	3248.9	3264.3	3218.0	3117.7	3036.7	3032.8	2944.1	2847.6	2770.4	2666.2
7.5°	3657.9	3619.3	3561.4	3495.8	3383.9	3264.3	3229.6	3144.7	3009.6	2874.6	2735.7
10°	3931.8	3904.8	3854.7	3762.1	3607.7	3472.7	3476.5	3333.8	3191.0	3036.7	2847.6
12.5°	4101.6	4113.2	4039.9	3947.3	3812.2	3642.4	3638.6	3542.1	3380.1	3218.0	2994.2
15°	4271.4	4313.8	4201.9	4093.9	3920.3	3796.8	3819.9	3704.2	3546.0	3360.8	3113.8
17.5°	4298.4	4310.0	4286.8	4128.6	4001.3	3897.1	3901.0	3823.8	3704.2	3503.5	3291.3
20°	4252.1	4244.4	4217.4	4101.6	4016.7	3955.0	3958.8	3939.6	3874.0	3711.9	3422.5
22.5°	4117.0	4117.0	4082.3	4005.1	3966.6	4024.4	3978.1	4051.5	3982.0	3885.5	3646.3
25°	4009.0	4051.5	4032.2	3982.0	3997.4	4074.6	4097.8	4167.2	4155.6	4036.0	3800.6
27.5°	4124.8	4074.6	4086.2	4028.3	4086.2	4201.9	4213.5	4263.7	4259.8	4163.3	3939.6
30°	4201.9	4248.2	4159.5	4032.2	4093.9	4290.7	4283.0	4348.6	4379.4	4263.7	4070.7
32.5°	4448.9	4410.3	4337.0	4167.2	4174.9	4286.8	4321.5	4406.4	4425.7	4356.3	4198.1
35°	4954.3	4896.5	4576.2	4321.5	4283.0	4337.0	4360.1	4526.0	4560.8	4483.6	4333.1
37.5°	5733.8	5602.6	5216.7	4653.4	4479.7	4468.2	4468.2	4688.1	4819.3	4641.8	4533.8
40°	6848.9	6663.7	6247.0	5266.9	4738.3	4784.6	4830.9	4950.5	4935.1	4819.3	4796.1
42.5°	8268.8	8126.1	7674.6	6297.1	5232.2	5000.6	4962.1	5124.1	5367.2	5320.9	5305.5
45°	9453.4	9461.1	9171.7	7709.3	6084.9	5498.4	5525.4	5648.9	6057.9	6023.2	6019.3
47.5°	10317.7	10209.7	10167.2	9071.4	7327.3	6443.7	6405.2	6490.0	7022.5	7242.5	7342.8
50°	11104.8	11031.5	10931.2	10394.9	8820.6	7628.3	7589.7	7597.4	8411.6	8720.3	8967.2
52.5°	12081.0	12173.6	11841.8	11513.8	10753.7	9167.9	9125.4	8974.9	9985.9	10410.3	10703.5
55°	13284.9	13111.3	12737.0	12906.8	12601.9	10830.9	10753.7	10576.2	11780.1	11957.6	12266.2
57.5°	13551.1	13419.9	13805.8	14407.7	14701.0	12783.3	12752.4	12432.2	13288.8	13126.7	13998.7
60°	14214.8	14249.5	14785.9	15982.0	16491.3	15036.7	14886.2	14322.8	14751.1	14782.0	15711.9
62.5°	14897.8	14816.7	16016.7	17166.6	17949.9	17170.4	17120.3	16001.3	16487.5	16093.9	17324.8
65°	14396.2	14519.6	16236.7	18162.1	19840.5	19257.9	19215.5	17618.0	17884.3	17394.2	17980.7
67.5°	12613.5	12362.7	14766.6	17706.8	20812.9	21445.7	21399.4	19381.4	18671.4	17386.5	16618.7
70°	9245.0	9028.9	10989.1	14994.2	19420.0	22564.7	22749.9	20608.4	18351.1	15765.9	12821.9
72.5°	4529.9	4533.8	6158.2	10167.2	15364.6	20565.9	20658.5	18895.2	15765.9	11621.9	7261.7
75°	1338.9	1354.3	2280.4	4985.2	9931.8	15619.3	15723.5	14342.1	10927.3	6003.9	2477.2
77.5°	490.0	490.0	756.3	1871.4	4954.3	9858.5	9850.8	8805.2	5533.1	2033.4	578.8
80°	254.7	266.2	393.6	764.0	2145.3	5135.7	5328.6	4310.0	2102.9	856.6	169.8
82.5°	104.2	115.8	216.1	393.6	1030.2	1801.9	1971.7	1690.0	914.5	598.1	77.2
85°	30.9	34.7	104.2	219.9	405.1	451.4	501.6	567.2	574.9	463.0	34.7
87.5°	3.9	3.9	42.4	73.3	88.7	96.5	111.9	111.9	293.2	324.1	19.3
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°	2631.5	2631.5	2631.5	2631.5	2631.5	2631.5	2631.5	2631.5	2631.5	2631.5	2631.5
2.5°	2650.8	2631.5	2600.6	2531.2	2515.8	2465.6	2461.7	2415.4	2430.9	2400.0	2388.4
5°	2631.5	2589.1	2504.2	2450.2	2396.1	2361.4	2338.3	2319.0	2315.1	2299.7	2292.0
7.5°	2666.2	2608.4	2477.2	2392.3	2299.7	2268.8	2218.7	2214.8	2187.8	2160.8	2160.8
10°	2782.0	2677.8	2535.1	2392.3	2272.7	2172.3	2056.6	1971.7	1940.8	1871.4	1879.1
12.5°	2874.6	2782.0	2573.6	2427.0	2245.7	2018.0	1763.3	1566.6	1474.0	1385.2	1419.9
15°	3005.8	2870.7	2646.9	2434.7	2141.5	1747.9	1331.2	1111.3	1026.4	1007.1	1003.2
17.5°	3148.6	3005.8	2739.6	2415.4	1929.3	1350.5	980.1	852.7	868.2	891.3	887.5
20°	3306.8	3133.1	2809.0	2349.8	1593.6	980.1	802.6	798.7	821.9	856.6	864.3
22.5°	3472.7	3322.2	2893.9	2153.1	1188.4	787.1	771.7	771.7	787.1	829.6	821.9
25°	3657.9	3457.2	2936.3	1848.2	852.7	725.4	733.1	748.6	756.3	791.0	794.9
27.5°	3800.6	3607.7	2947.9	1481.7	694.5	671.4	690.7	710.0	721.5	748.6	760.1
30°	3931.8	3796.8	2886.2	1103.5	636.7	625.1	632.8	659.8	683.0	706.1	706.1
32.5°	4097.8	3904.8	2743.4	783.3	601.9	582.6	578.8	590.4	617.4	644.4	644.4
35°	4267.5	4086.2	2515.8	628.9	571.1	544.1	528.6	517.0	528.6	547.9	563.3
37.5°	4514.5	4360.1	2230.2	578.8	547.9	509.3	478.5	451.4	432.2	428.3	439.9
40°	4865.6	4668.8	1863.7	544.1	520.9	474.6	428.3	382.0	339.6	312.5	316.4
42.5°	5398.1	5124.1	1466.2	524.8	501.6	436.0	370.4	304.8	250.8	223.8	223.8
45°	6158.2	5726.1	1076.5	505.5	478.5	389.7	304.8	227.7	173.6	158.2	162.1
47.5°	7304.2	6451.5	771.7	474.6	447.6	339.6	239.2	162.1	127.3	119.6	123.5
50°	8801.3	7311.9	601.9	439.9	409.0	285.5	177.5	119.6	100.3	96.5	100.3
52.5°	10371.7	8180.1	528.6	409.0	351.1	227.7	131.2	96.5	84.9	81.0	84.9
55°	11714.5	8739.6	459.2	362.7	281.7	169.8	104.2	84.9	73.3	61.7	61.7
57.5°	13072.7	9021.2	362.7	301.0	208.4	127.3	88.7	73.3	61.7	50.2	46.3
60°	14176.2	9221.9	258.5	223.8	146.6	100.3	77.2	65.6	50.2	38.6	34.7
62.5°	14901.6	8647.0	189.1	169.8	108.0	84.9	65.6	54.0	38.6	27.0	27.0
65°	14542.8	7852.1	146.6	119.6	81.0	65.6	54.0	38.6	27.0	15.4	11.6
67.5°	13049.5	6397.4	119.6	88.7	61.7	50.2	42.4	30.9	15.4	3.9	3.9
70°	9735.1	4688.1	96.5	65.6	50.2	38.6	30.9	19.3	7.7	3.9	0.0
72.5°	5324.8	2565.9	77.2	54.0	38.6	30.9	23.2	15.4	7.7	0.0	0.0
75°	1759.5	683.0	57.9	38.6	23.2	19.3	15.4	11.6	3.9	0.0	0.0
77.5°	424.4	177.5	46.3	34.7	19.3	11.6	7.7	3.9	3.9	0.0	0.0
80°	131.2	73.3	34.7	23.2	15.4	11.6	3.9	0.0	0.0	0.0	0.0
82.5°	54.0	34.7	15.4	15.4	11.6	3.9	0.0	0.0	0.0	0.0	0.0
85°	27.0	19.3	11.6	7.7	7.7	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	19.3	7.7	3.9	3.9	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)