

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: P483605

Luminaire Tested: **IFLD-L-SA7D-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483605
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

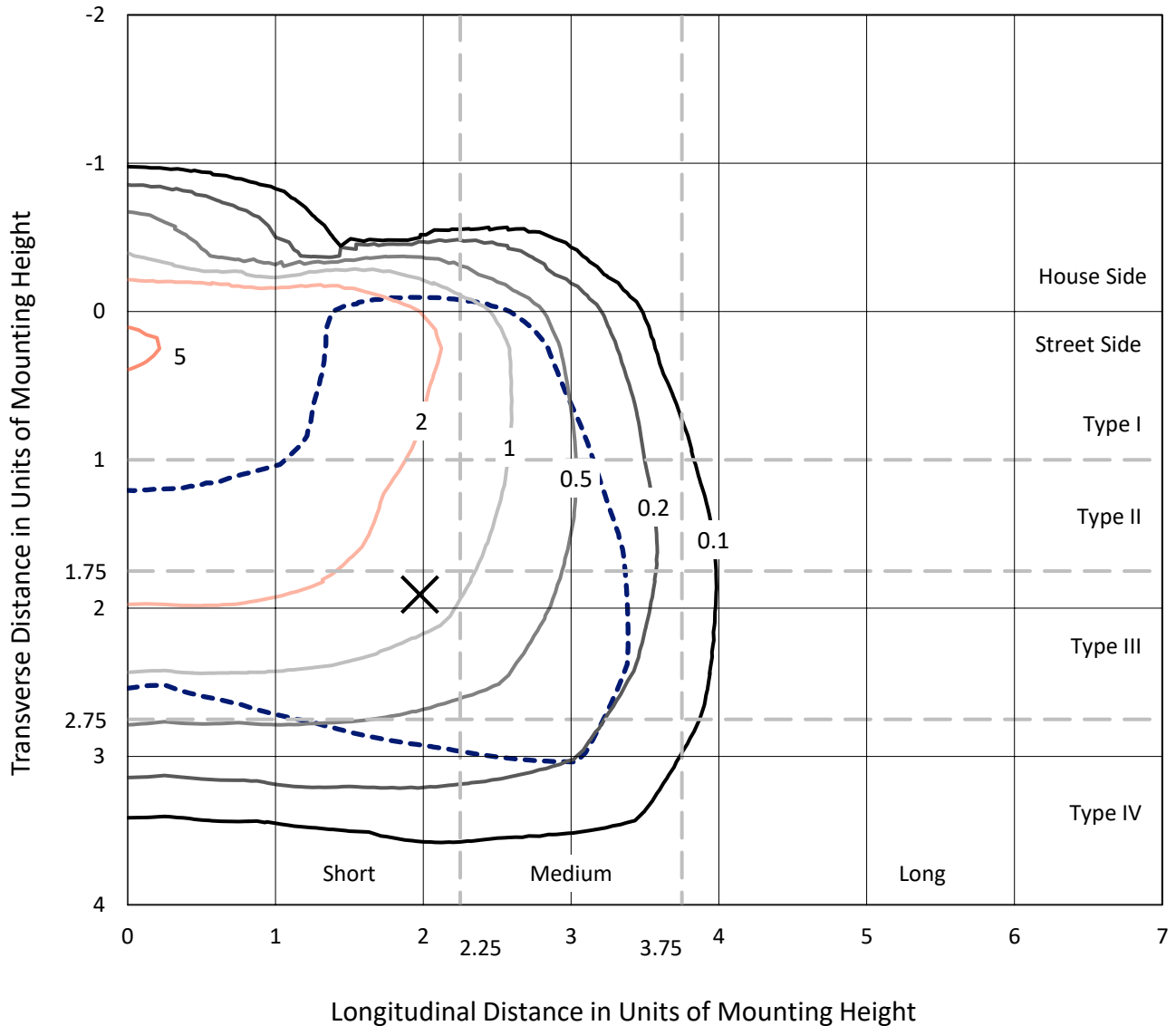
Lumens per Lamp: N/A
Luminaire Lumens: 35497.9 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6
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

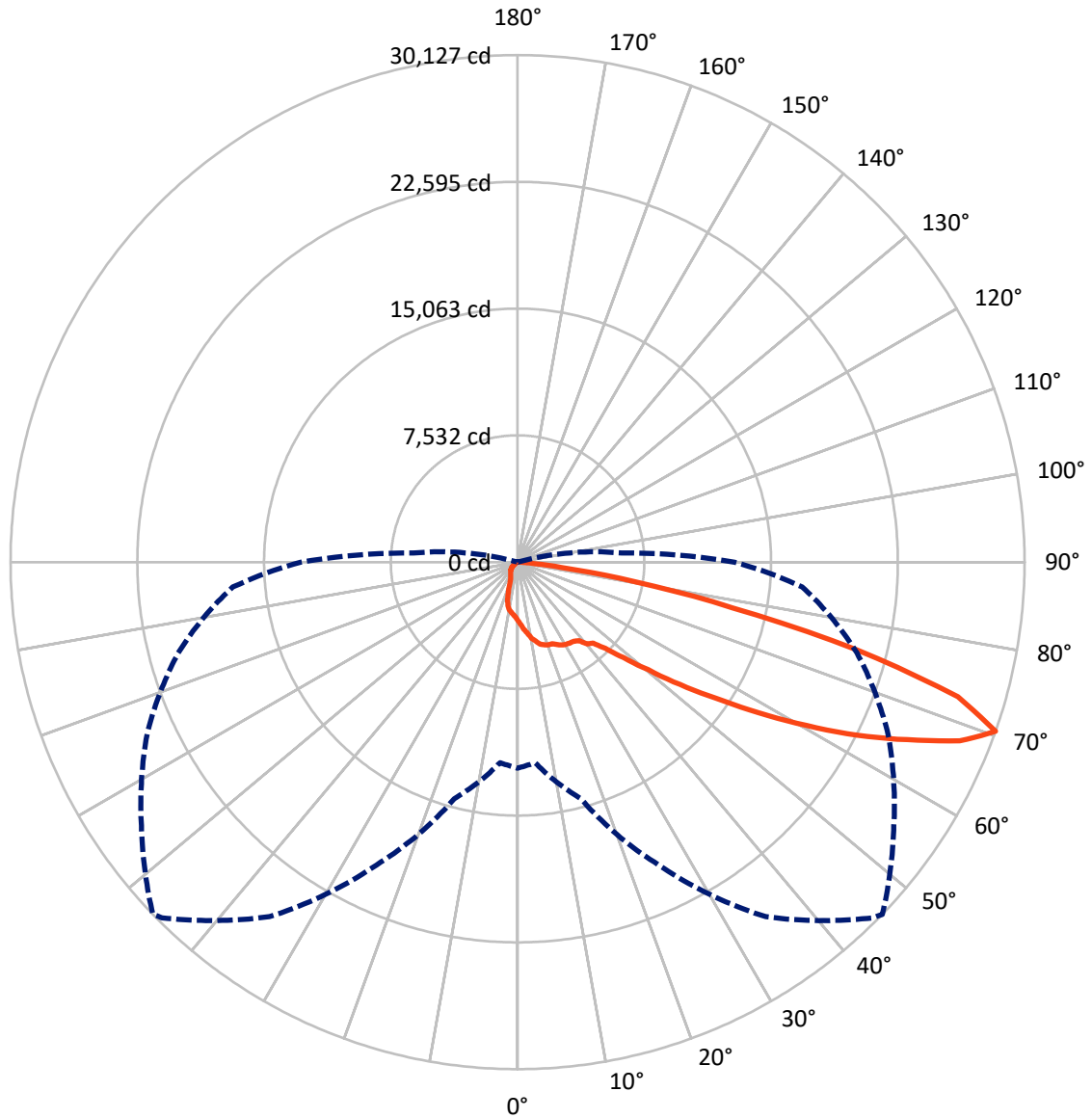
✕ Max cd
 - - - 1/2 Max cd



Based on 30 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	3532.1	0.0	3532.1
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	31965.7	0.0	31965.7
	% Fixture	90.0	0.0	90.0
Total	Lumens	35497.9	0.0	35497.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.5	1.0
10°-20°	1049.3	3.0
20°-30°	1680.8	4.7
30°-40°	2399.1	6.8
40°-50°	4142.7	11.7
50°-60°	7931.5	22.3
60°-70°	11745.3	33.1
70°-80°	5817.3	16.4
80°-90°	384.4	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°	35497.9	100.0
0°-180°	35497.9	100.0

Coefficient of Utilization

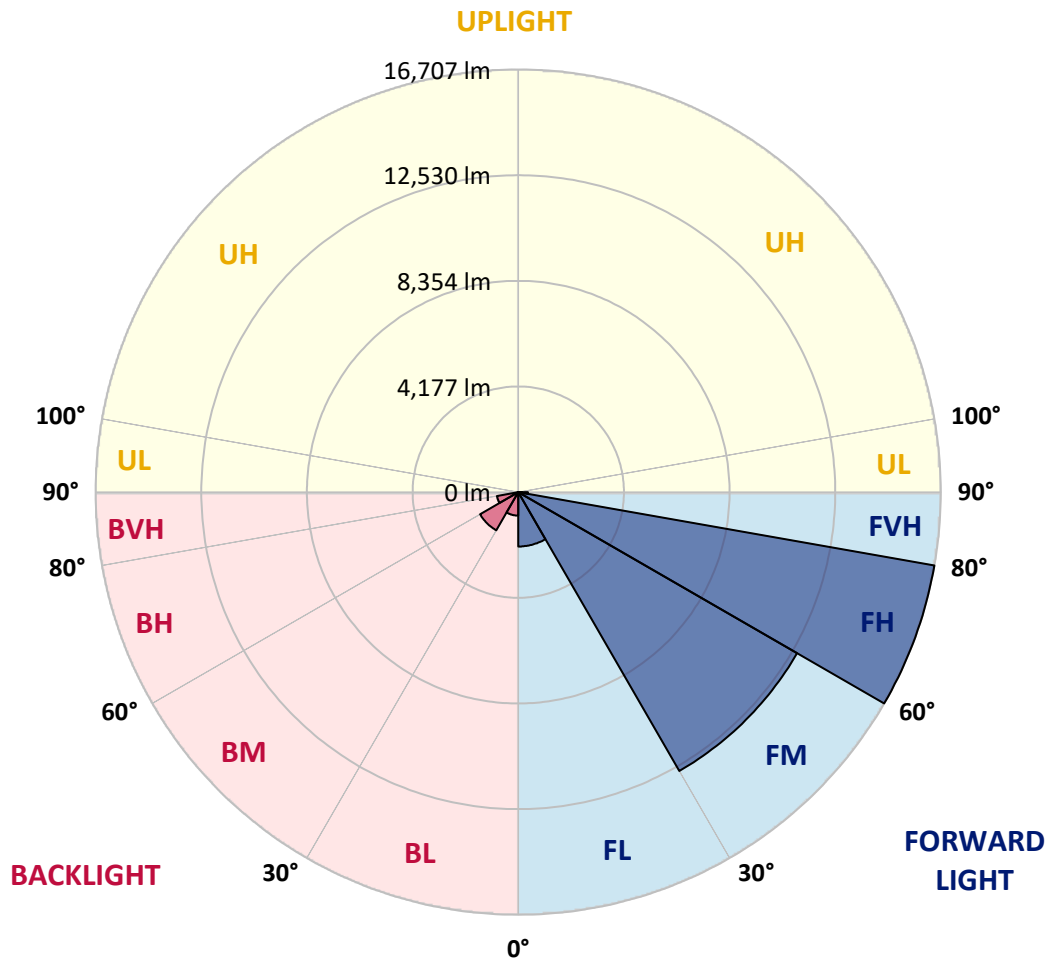


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2149.7	6.1			
FM (30°-60°)	12729.4	35.9			
FH (60°-80°)	16707.1	47.1			G5
FVH (80°-90°)	379.5	1.1			G3/500
BL (0°-30°)	928.0	2.6	B2/1000		
BM (30°-60°)	1743.8	4.9	B2/2500		
BH (60°-80°)	855.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.9	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8
2.5°	3888.4	3862.9	3822.0	3806.7	3765.8	3745.4	3714.7	3699.4	3643.2	3587.0	3551.2
5°	4363.6	4302.3	4322.8	4261.5	4128.6	4021.3	4016.2	3898.7	3770.9	3668.7	3530.8
7.5°	4844.0	4792.9	4716.2	4629.3	4481.2	4322.8	4276.8	4164.4	3985.5	3806.7	3622.7
10°	5206.7	5171.0	5104.5	4981.9	4777.5	4598.7	4603.8	4414.7	4225.7	4021.3	3770.9
12.5°	5431.6	5446.9	5349.8	5227.2	5048.3	4823.5	4818.4	4690.7	4476.1	4261.5	3965.1
15°	5656.4	5712.6	5564.4	5421.3	5191.4	5027.9	5058.6	4905.3	4695.8	4450.5	4123.5
17.5°	5692.2	5707.5	5676.8	5467.3	5298.7	5160.8	5165.9	5063.7	4905.3	4639.6	4358.5
20°	5630.8	5620.6	5584.9	5431.6	5319.2	5237.4	5242.5	5217.0	5130.1	4915.5	4532.3
22.5°	5452.0	5452.0	5406.0	5303.8	5252.7	5329.4	5268.1	5365.1	5273.2	5145.4	4828.6
25°	5308.9	5365.1	5339.6	5273.2	5293.6	5395.8	5426.5	5518.4	5503.1	5344.7	5033.0
27.5°	5462.2	5395.8	5411.1	5334.5	5411.1	5564.4	5579.7	5646.2	5641.1	5513.3	5217.0
30°	5564.4	5625.7	5508.2	5339.6	5421.3	5681.9	5671.7	5758.6	5799.5	5646.2	5390.7
32.5°	5891.4	5840.3	5743.3	5518.4	5528.6	5676.8	5722.8	5835.2	5860.8	5768.8	5559.3
35°	6560.8	6484.2	6060.1	5722.8	5671.7	5743.3	5773.9	5993.6	6039.6	5937.4	5738.1
37.5°	7592.9	7419.2	6908.3	6162.2	5932.3	5917.0	5917.0	6208.2	6382.0	6146.9	6003.8
40°	9069.6	8824.4	8272.5	6974.7	6274.7	6336.0	6397.3	6555.7	6535.2	6382.0	6351.3
42.5°	10950.0	10760.9	10163.1	8339.0	6928.7	6622.1	6571.0	6785.6	7107.5	7046.2	7025.8
45°	12518.7	12528.9	12145.7	10209.1	8057.9	7281.3	7317.0	7480.5	8022.2	7976.2	7971.1
47.5°	13663.2	13520.1	13463.9	12012.8	9703.2	8533.1	8482.0	8594.4	9299.6	9590.8	9723.7
50°	14705.6	14608.5	14475.7	13765.4	11680.7	10101.8	10050.7	10060.9	11139.0	11547.8	11874.8
52.5°	15998.3	16121.0	15681.5	15247.2	14240.6	12140.5	12084.3	11885.1	13223.8	13785.8	14174.2
55°	17592.5	17362.6	16867.0	17091.8	16688.1	14342.8	14240.6	14005.6	15599.8	15834.8	16243.6
57.5°	17945.1	17771.4	18282.3	19079.5	19467.8	16928.3	16887.4	16463.3	17597.7	17383.0	18537.8
60°	18824.0	18870.0	19580.2	21164.2	21838.7	19912.3	19713.0	18967.0	19534.2	19575.1	20806.5
62.5°	19728.4	19621.1	21210.2	22732.9	23770.1	22738.0	22671.5	21189.7	21833.6	21312.4	22942.4
65°	19064.1	19227.6	21501.4	24051.1	26273.8	25502.3	25446.1	23330.7	23683.3	23034.3	23811.0
67.5°	16703.5	16371.3	19554.6	23448.2	27561.5	28399.5	28338.1	25665.8	24725.6	23024.1	22007.3
70°	12242.7	11956.6	14552.3	19856.1	25716.9	29881.3	30126.5	27290.7	24301.5	20878.1	16979.4
72.5°	5998.7	6003.8	8155.0	13463.9	20346.6	27234.5	27357.1	25022.0	20878.1	15390.3	9616.4
75°	1773.1	1793.5	3019.8	6601.7	13152.3	20683.9	20821.8	18992.6	14470.5	7950.6	3280.4
77.5°	648.9	648.9	1001.5	2478.2	6560.8	13055.2	13044.9	11660.2	7327.2	2692.8	766.4
80°	337.2	352.6	521.2	1011.7	2841.0	6801.0	7056.4	5707.5	2784.8	1134.3	224.8
82.5°	138.0	153.3	286.1	521.2	1364.3	2386.2	2611.0	2238.0	1211.0	792.0	102.2
85°	40.9	46.0	138.0	291.3	536.5	597.8	664.3	751.1	761.3	613.2	46.0
87.5°	5.1	5.1	56.2	97.1	117.5	127.7	148.2	148.2	388.3	429.2	25.5
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°	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8
2.5°	3510.3	3484.8	3443.9	3351.9	3331.5	3265.1	3260.0	3198.6	3219.1	3178.2	3162.9
5°	3484.8	3428.6	3316.2	3244.6	3173.1	3127.1	3096.5	3070.9	3065.8	3045.4	3035.1
7.5°	3530.8	3454.1	3280.4	3168.0	3045.4	3004.5	2938.1	2932.9	2897.2	2861.4	2861.4
10°	3684.1	3546.1	3357.0	3168.0	3009.6	2876.7	2723.4	2611.0	2570.2	2478.2	2488.4
12.5°	3806.7	3684.1	3408.1	3214.0	2973.8	2672.3	2335.1	2074.5	1951.9	1834.4	1880.4
15°	3980.4	3801.6	3505.2	3224.2	2835.9	2314.7	1762.8	1471.6	1359.2	1333.6	1328.5
17.5°	4169.5	3980.4	3627.9	3198.6	2554.8	1788.4	1297.9	1129.2	1149.7	1180.3	1175.2
20°	4379.0	4149.0	3719.8	3111.8	2110.3	1297.9	1062.8	1057.7	1088.4	1134.3	1144.6
22.5°	4598.7	4399.4	3832.2	2851.2	1573.8	1042.4	1021.9	1021.9	1042.4	1098.6	1088.4
25°	4844.0	4578.3	3888.4	2447.5	1129.2	960.6	970.8	991.3	1001.5	1047.5	1052.6
27.5°	5033.0	4777.5	3903.8	1962.1	919.7	889.1	914.6	940.2	955.5	991.3	1006.6
30°	5206.7	5027.9	3822.0	1461.4	843.1	827.8	838.0	873.8	904.4	935.1	935.1
32.5°	5426.5	5171.0	3633.0	1037.3	797.1	771.6	766.4	781.8	817.5	853.3	853.3
35°	5651.3	5411.1	3331.5	832.9	756.2	720.5	700.0	684.7	700.0	725.6	746.0
37.5°	5978.3	5773.9	2953.4	766.4	725.6	674.5	633.6	597.8	572.3	567.2	582.5
40°	6443.3	6182.7	2468.0	720.5	689.8	628.5	567.2	505.9	449.6	413.9	419.0
42.5°	7148.4	6785.6	1941.7	694.9	664.3	577.4	490.5	403.7	332.1	296.4	296.4
45°	8155.0	7582.7	1425.6	669.4	633.6	516.1	403.7	301.5	229.9	209.5	214.6
47.5°	9672.6	8543.3	1021.9	628.5	592.7	449.6	316.8	214.6	168.6	158.4	163.5
50°	11655.1	9682.8	797.1	582.5	541.6	378.1	235.0	158.4	132.9	127.7	132.9
52.5°	13734.8	10832.5	700.0	541.6	465.0	301.5	173.7	127.7	112.4	107.3	112.4
55°	15512.9	11573.4	608.0	480.3	373.0	224.8	138.0	112.4	97.1	81.8	81.8
57.5°	17311.5	11946.4	480.3	398.6	275.9	168.6	117.5	97.1	81.8	66.4	61.3
60°	18772.9	12212.1	342.3	296.4	194.2	132.9	102.2	86.9	66.4	51.1	46.0
62.5°	19733.5	11450.7	250.4	224.8	143.1	112.4	86.9	71.5	51.1	35.8	35.8
65°	19258.3	10398.1	194.2	158.4	107.3	86.9	71.5	51.1	35.8	20.4	15.3
67.5°	17280.9	8471.8	158.4	117.5	81.8	66.4	56.2	40.9	20.4	5.1	5.1
70°	12891.7	6208.2	127.7	86.9	66.4	51.1	40.9	25.5	10.2	5.1	0.0
72.5°	7051.3	3397.9	102.2	71.5	51.1	40.9	30.7	20.4	10.2	0.0	0.0
75°	2330.0	904.4	76.6	51.1	30.7	25.5	20.4	15.3	5.1	0.0	0.0
77.5°	562.1	235.0	61.3	46.0	25.5	15.3	10.2	5.1	5.1	0.0	0.0
80°	173.7	97.1	46.0	30.7	20.4	15.3	5.1	0.0	0.0	0.0	0.0
82.5°	71.5	46.0	20.4	20.4	15.3	5.1	0.0	0.0	0.0	0.0	0.0
85°	35.8	25.5	15.3	10.2	10.2	5.1	0.0	0.0	0.0	0.0	0.0
87.5°	25.5	10.2	5.1	5.1	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)