

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: P484812

Luminaire Tested: **IFLD-L-SA7B-740-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484812  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-740-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

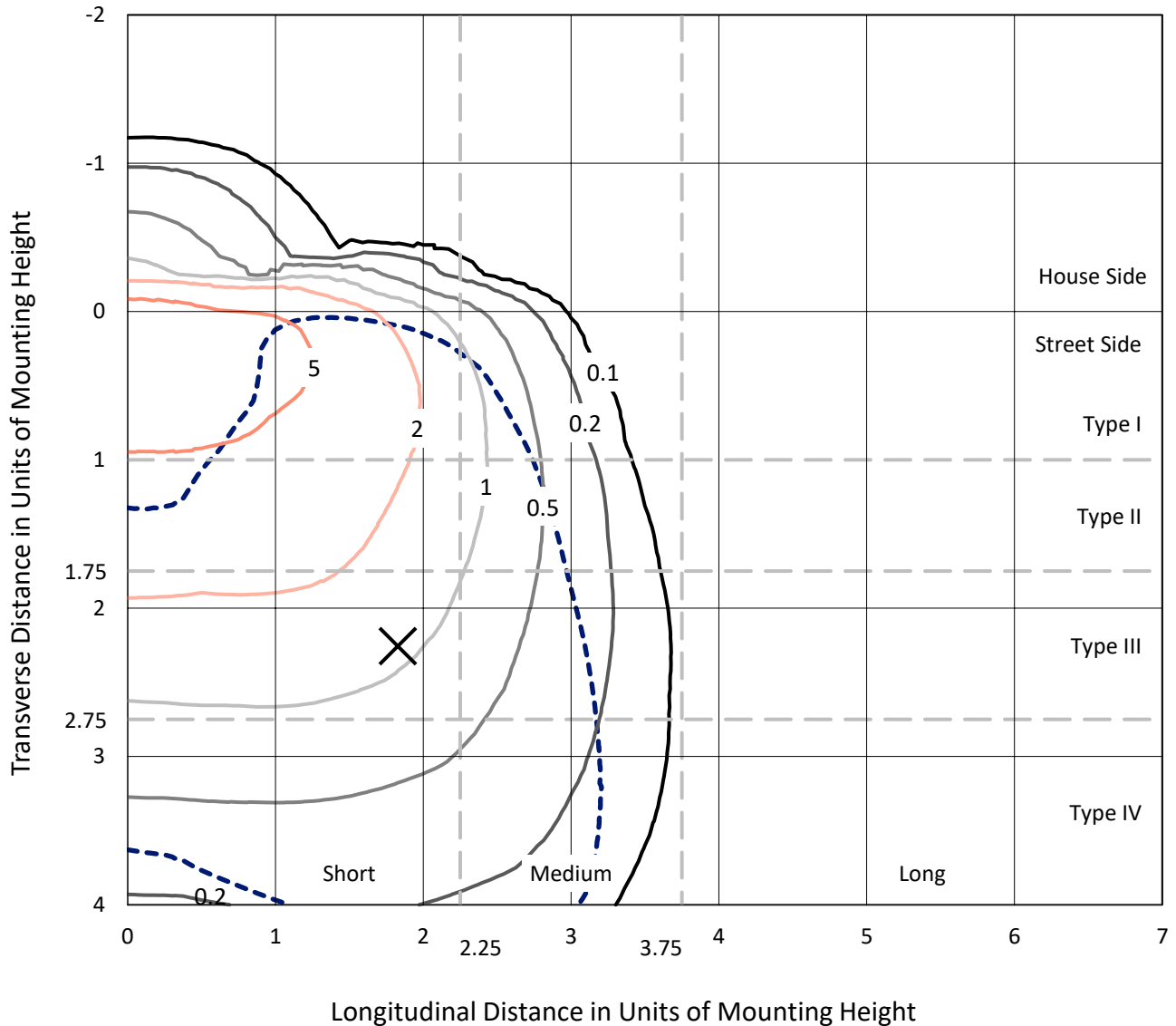
Lumens per Lamp: N/A  
Luminaire Lumens: 29419.8 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 281  
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

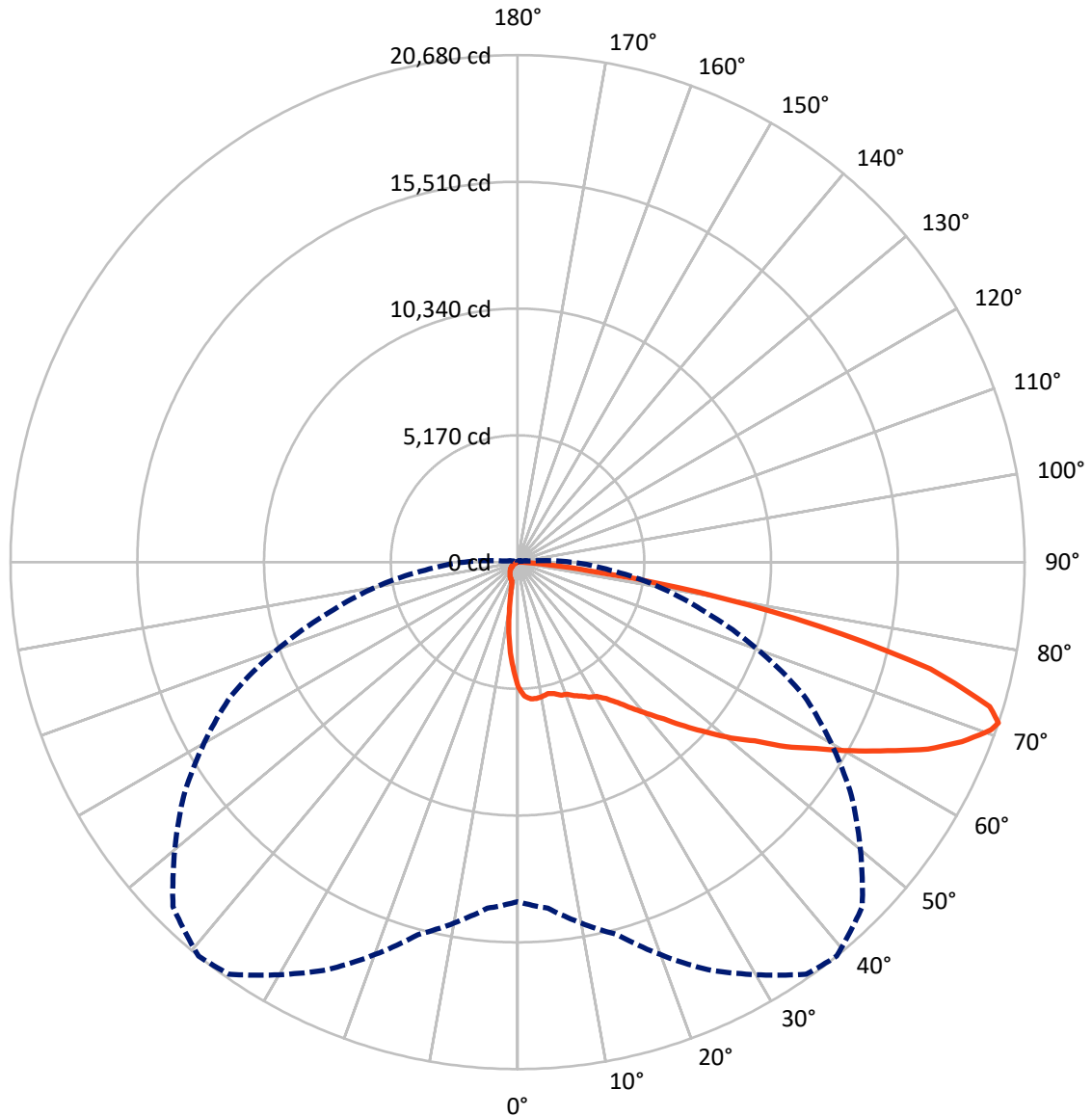
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2214.9	0.0	2214.9
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	27204.9	0.0	27204.9
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	29419.8	0.0	29419.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.1	1.5
10°-20°	1053.8	3.6
20°-30°	1691.6	5.8
30°-40°	2589.5	8.8
40°-50°	4156.6	14.1
50°-60°	6105.4	20.8
60°-70°	7689.5	26.1
70°-80°	5131.8	17.4
80°-90°	573.5	1.9
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°	29419.8	100.0
0°-180°	29419.8	100.0

**Coefficient of Utilization**



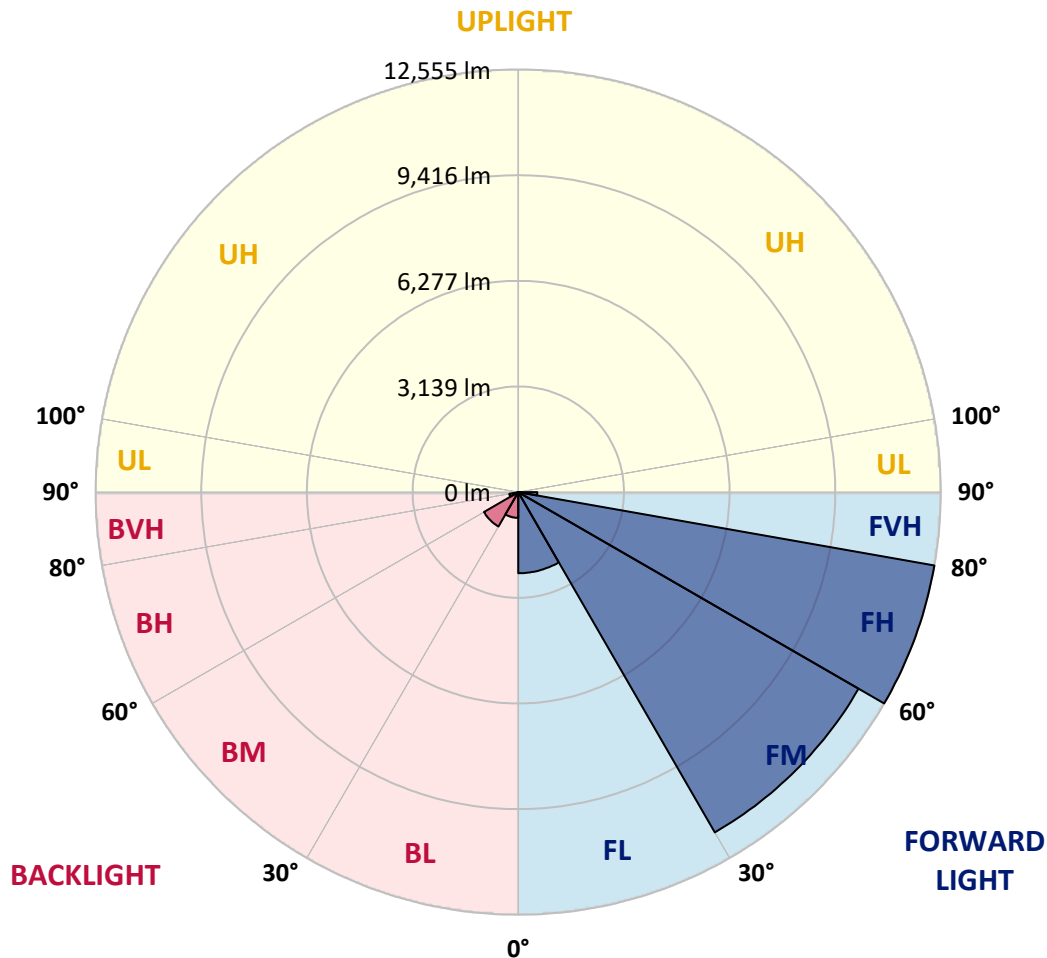
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2408.9	8.2			
FM (30°-60°)	11674.2	39.7			
FH (60°-80°)	12554.7	42.7			G5
FVH (80°-90°)	567.2	1.9			G4/750
BL (0°-30°)	764.7	2.6	B2/1000		
BM (30°-60°)	1177.3	4.0	B2/2500		
BH (60°-80°)	266.6	0.9	B1/500		G1/500
BVH (80°-90°)	6.3	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°	39°	45°	55°	65°	75°	85°
0°	5120.7	5120.7	5120.7	5120.7	5120.7	5120.7	5120.7	5120.7	5120.7	5120.7	5120.7
2.5°	5518.2	5572.2	5518.2	5495.0	5471.9	5475.7	5414.0	5425.5	5352.2	5255.8	5178.6
5°	5691.8	5765.1	5707.2	5680.2	5676.4	5603.1	5572.2	5498.9	5410.1	5259.6	5167.0
7.5°	5676.4	5660.9	5687.9	5664.8	5614.6	5614.6	5579.9	5475.7	5387.0	5217.2	5059.0
10°	5560.6	5606.9	5583.8	5556.7	5568.3	5572.2	5506.6	5433.3	5406.3	5236.5	4977.9
12.5°	5549.0	5471.9	5556.7	5560.6	5510.4	5506.6	5498.9	5479.6	5394.7	5240.3	4997.2
15°	5510.4	5479.6	5564.5	5568.3	5579.9	5568.3	5579.9	5564.5	5479.6	5390.8	5082.1
17.5°	5541.3	5506.6	5626.2	5684.1	5657.1	5711.1	5691.8	5622.3	5549.0	5444.8	5163.1
20°	5549.0	5599.2	5730.4	5753.5	5838.4	5749.7	5745.8	5672.5	5626.2	5514.3	5213.3
22.5°	5691.8	5715.0	5877.0	5927.2	5931.1	5919.5	5823.0	5738.1	5718.8	5579.9	5224.9
25°	5907.9	5988.9	6062.3	6093.1	6104.7	6050.7	5950.4	5842.3	5796.0	5707.2	5344.5
27.5°	6289.9	6239.8	6305.4	6351.7	6220.5	6239.8	6112.4	6019.8	5954.2	5877.0	5483.4
30°	6629.5	6583.2	6587.1	6579.3	6467.4	6363.2	6328.5	6166.4	6085.4	6116.3	5699.5
32.5°	6934.4	6834.0	6918.9	6880.3	6672.0	6641.1	6614.1	6409.6	6425.0	6567.8	6023.7
35°	7216.1	7181.3	7250.8	7181.3	7042.4	7034.7	7007.7	6830.2	6915.1	7119.6	6579.3
37.5°	7474.6	7486.2	7571.1	7536.3	7547.9	7555.6	7540.2	7351.1	7594.2	8053.4	7227.6
40°	7713.8	7698.4	7906.8	8014.8	8038.0	8122.9	8122.9	8076.6	8450.9	8968.0	8126.7
42.5°	7968.5	8007.1	8277.2	8458.6	8678.6	8751.9	8852.2	8875.4	9454.2	10044.6	9045.2
45°	8385.3	8319.7	8663.1	9091.5	9284.4	9542.9	9697.3	9828.5	10526.9	11337.3	9963.6
47.5°	8913.9	8782.7	9083.7	9705.0	10152.6	10364.9	10642.7	10816.4	11499.4	12336.8	10831.8
50°	9500.5	9365.4	9512.1	10368.7	10889.7	11275.6	11630.6	11850.5	12676.3	13455.8	11464.7
52.5°	10164.2	10040.7	10063.9	11059.5	11827.4	12109.1	12576.0	12904.0	13725.9	14131.1	11688.5
55°	10870.4	10839.5	10766.2	11734.8	12649.3	13282.2	13563.9	13957.5	14802.6	14497.7	11931.6
57.5°	11580.4	11483.9	11588.1	12630.0	13969.0	14347.2	14737.0	14972.3	15400.7	14818.0	11839.0
60°	12248.0	12255.7	12402.4	13602.5	15092.0	15628.4	15979.5	15836.7	16014.2	14956.9	11626.7
62.5°	12811.4	12796.0	13166.4	14694.5	16577.6	16940.4	17202.8	16566.1	16299.8	15092.0	11256.3
65°	13316.9	13490.5	14073.2	15994.9	17974.5	18391.3	18233.1	17256.8	16577.6	14694.5	10214.4
67.5°	13698.9	13957.5	14968.5	17218.2	19255.7	19548.9	19329.0	17781.6	16249.6	13135.5	8319.7
70°	13922.7	14185.1	15609.1	18236.9	20278.3	20490.5	19973.4	17376.4	14335.6	9512.1	5190.2
71°	13853.3	14173.6	15732.5	18345.0	20521.4	20679.6	19876.9	16627.8	12892.4	7964.7	3785.5
72.5°	13224.3	13525.3	15219.3	18267.8	20228.1	20131.6	19124.5	14829.6	10148.8	5078.2	1956.4
75°	9716.6	10040.7	13062.2	15802.0	18055.6	17391.8	15477.9	10407.3	5294.3	1555.1	571.1
77.5°	4839.0	4893.0	8107.4	11472.4	13243.6	12583.7	10372.6	5803.7	1979.6	459.2	285.6
80°	2230.4	2245.9	3040.8	5942.6	8007.1	7536.3	5811.4	2863.3	895.3	243.1	223.8
82.5°	1520.4	1543.5	1833.0	2461.9	3476.8	2932.7	2353.9	1833.0	513.2	146.6	220.0
85°	277.8	254.7	1026.5	1304.3	1342.9	910.7	814.2	1586.0	192.9	84.9	192.9
87.5°	0.0	3.9	142.8	532.5	478.5	212.2	277.8	385.9	19.3	27.0	34.7
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°	5120.7	5120.7	5120.7	5120.7	5120.7	5120.7	5120.7	5120.7	5120.7	5120.7	5120.7
2.5°	5113.0	5070.5	4927.8	4769.5	4626.8	4514.9	4372.1	4306.5	4202.3	4144.4	4140.5
5°	5039.7	4923.9	4676.9	4410.7	4113.5	3866.6	3592.6	3438.2	3260.7	3206.7	3195.1
7.5°	4916.2	4750.2	4387.5	4013.2	3557.9	3121.8	2786.1	2427.2	2207.3	2114.7	2079.9
10°	4839.0	4638.3	4144.4	3584.9	2948.2	2334.6	1863.8	1481.8	1281.1	1184.7	1161.5
12.5°	4839.0	4622.9	3947.6	3175.8	2330.7	1597.6	1153.8	933.8	868.2	845.1	845.1
15°	4827.4	4592.0	3758.5	2755.2	1724.9	1072.8	860.5	814.2	806.5	802.6	798.8
17.5°	4885.3	4538.0	3565.6	2303.7	1219.4	845.1	791.1	783.3	775.6	775.6	767.9
20°	4927.8	4507.1	3334.0	1825.2	910.7	783.3	760.2	748.6	744.8	740.9	748.6
22.5°	4893.0	4460.8	3048.5	1366.0	794.9	744.8	729.3	717.7	710.0	710.0	713.9
25°	4958.6	4418.4	2762.9	1030.3	744.8	710.0	694.6	686.9	683.0	679.2	671.4
27.5°	5047.4	4437.7	2423.4	829.7	702.3	675.3	659.9	652.1	648.3	640.6	648.3
30°	5155.4	4433.8	2049.1	725.5	663.7	636.7	621.3	617.4	609.7	605.8	609.7
32.5°	5340.7	4534.2	1663.2	671.4	621.3	598.1	582.7	578.8	575.0	571.1	567.3
35°	5738.1	4657.6	1300.4	629.0	582.7	555.7	544.1	536.4	532.5	528.7	524.8
37.5°	6228.2	4931.6	991.7	590.4	544.1	517.1	505.5	501.7	486.2	482.4	478.5
40°	6841.7	5224.9	764.1	548.0	509.4	482.4	470.8	459.2	439.9	432.2	424.5
42.5°	7605.8	5510.4	629.0	509.4	470.8	451.5	432.2	412.9	397.5	382.0	374.3
45°	8369.9	5842.3	551.8	474.6	439.9	416.8	401.3	374.3	347.3	324.1	320.3
47.5°	9006.6	5961.9	505.5	436.1	409.0	389.7	366.6	331.9	293.3	270.1	266.3
50°	9481.2	5892.5	459.2	397.5	374.3	355.0	324.1	281.7	243.1	220.0	212.2
52.5°	9573.8	5587.6	416.8	366.6	339.6	316.4	281.7	235.4	192.9	169.8	165.9
55°	9508.2	5082.1	382.0	339.6	308.7	274.0	235.4	189.1	150.5	127.3	123.5
57.5°	9373.2	4484.0	343.4	304.8	270.1	235.4	192.9	154.4	111.9	88.8	88.8
60°	8913.9	3669.8	304.8	266.3	231.5	200.7	158.2	111.9	77.2	57.9	54.0
62.5°	8273.4	2820.8	266.3	227.7	200.7	165.9	123.5	81.0	46.3	30.9	30.9
65°	7104.1	1975.7	223.8	189.1	165.9	135.1	92.6	50.2	27.0	11.6	11.6
67.5°	5398.5	1223.3	185.2	158.2	142.8	108.0	65.6	30.9	11.6	3.9	0.0
70°	3098.7	636.7	146.6	127.3	111.9	81.0	46.3	15.4	7.7	0.0	0.0
71°	2164.8	470.8	131.2	111.9	100.3	73.3	38.6	11.6	3.9	0.0	0.0
72.5°	1084.3	312.6	111.9	92.6	81.0	57.9	30.9	11.6	3.9	0.0	0.0
75°	385.9	200.7	77.2	61.7	57.9	42.4	19.3	7.7	3.9	0.0	0.0
77.5°	266.3	162.1	54.0	38.6	38.6	27.0	11.6	3.9	3.9	0.0	0.0
80°	243.1	88.8	34.7	23.2	19.3	15.4	7.7	3.9	0.0	0.0	0.0
82.5°	243.1	65.6	19.3	15.4	11.6	7.7	3.9	0.0	0.0	0.0	0.0
85°	169.8	34.7	11.6	11.6	7.7	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	27.0	11.6	7.7	3.9	3.9	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)