

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: P483595

Luminaire Tested: **IFLD-S-SA6D-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483595
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

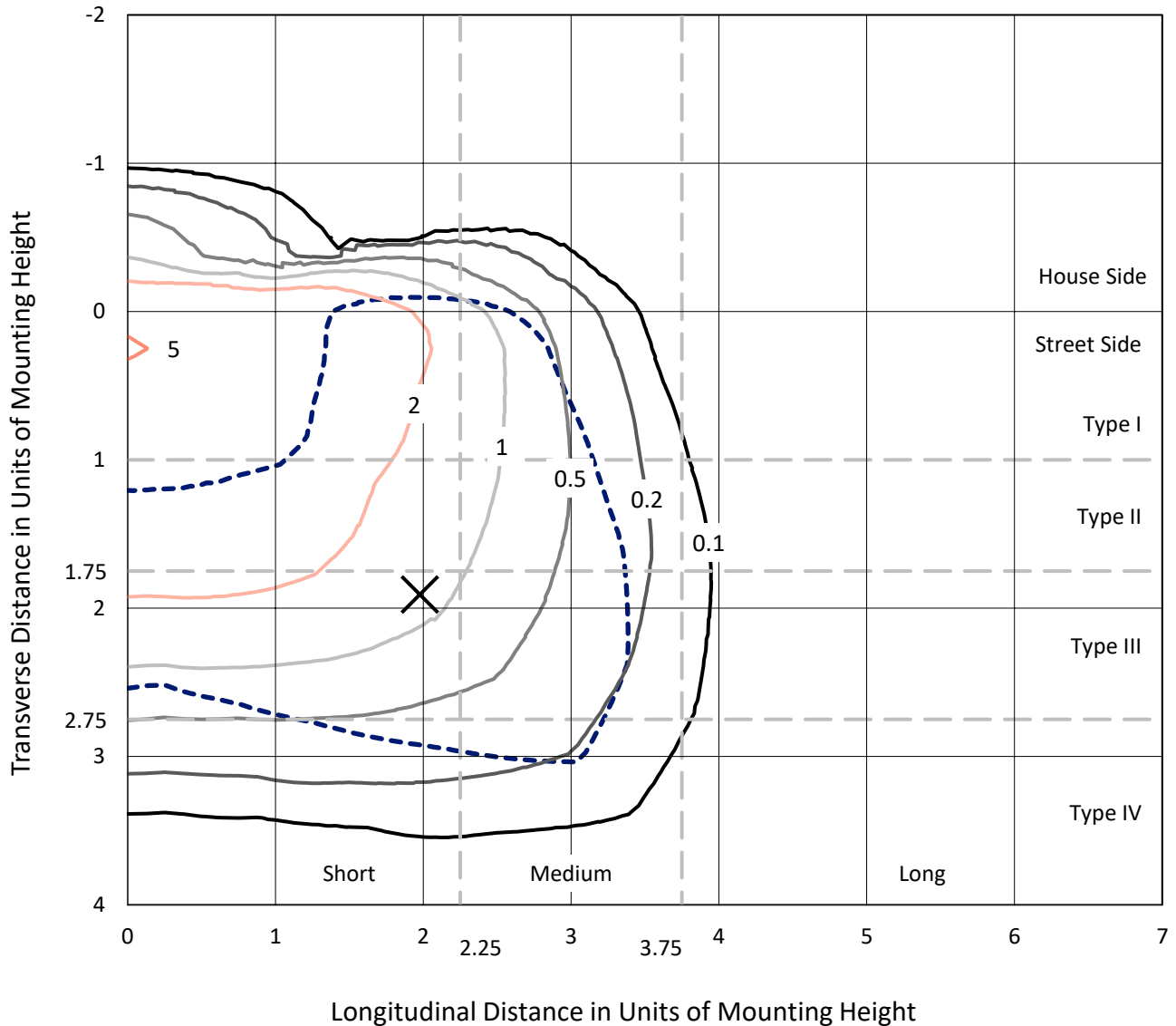
Lumens per Lamp: N/A
Luminaire Lumens: 33273 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

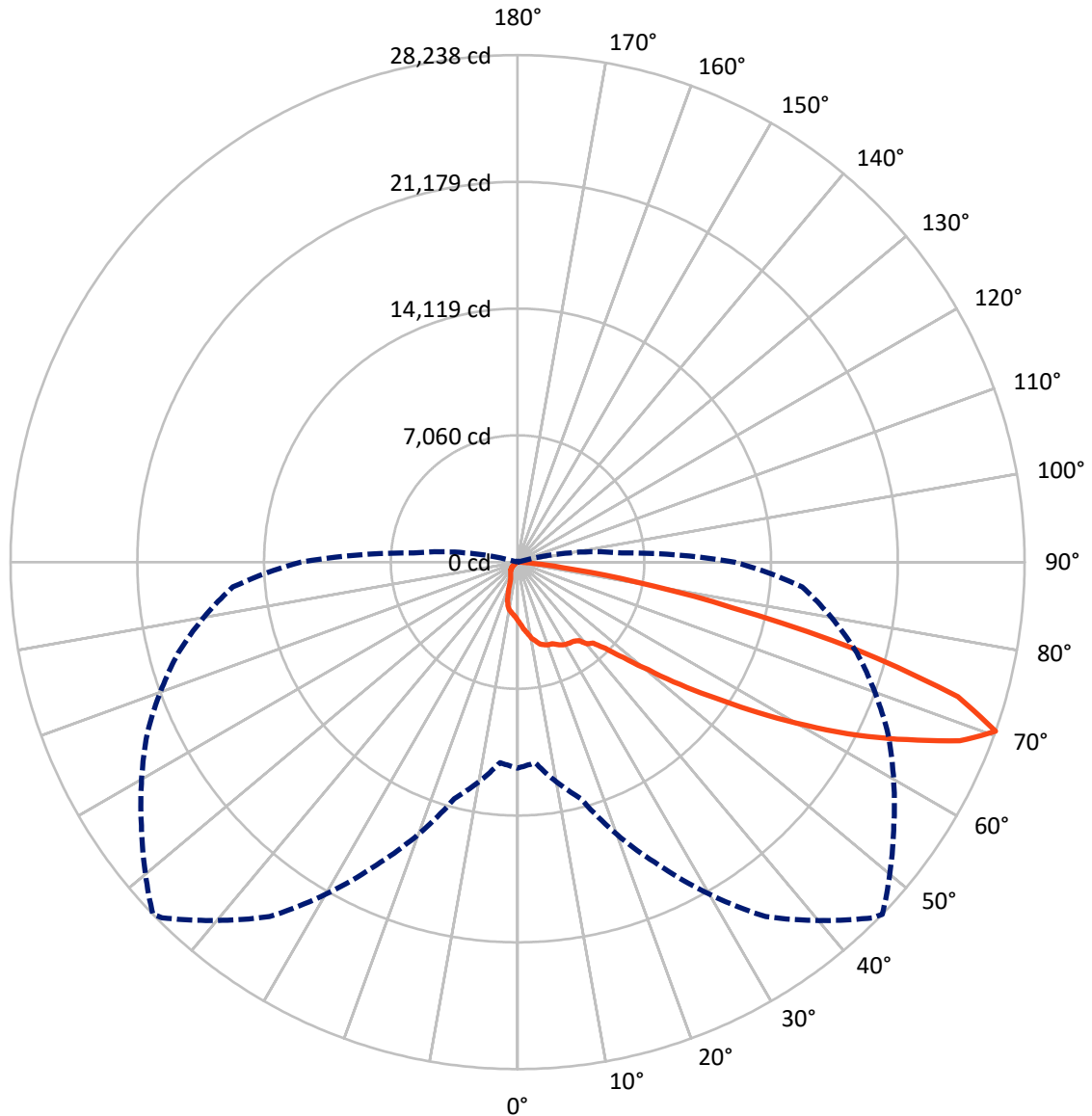
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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	3310.8	0.0	3310.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	29962.3	0.0	29962.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	33273.0	0.0	33273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.7	1.0
10°-20°	983.6	3.0
20°-30°	1575.5	4.7
30°-40°	2248.8	6.8
40°-50°	3883.0	11.7
50°-60°	7434.4	22.3
60°-70°	11009.1	33.1
70°-80°	5452.7	16.4
80°-90°	360.3	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°	33273.0	100.0
0°-180°	33273.0	100.0

Coefficient of Utilization

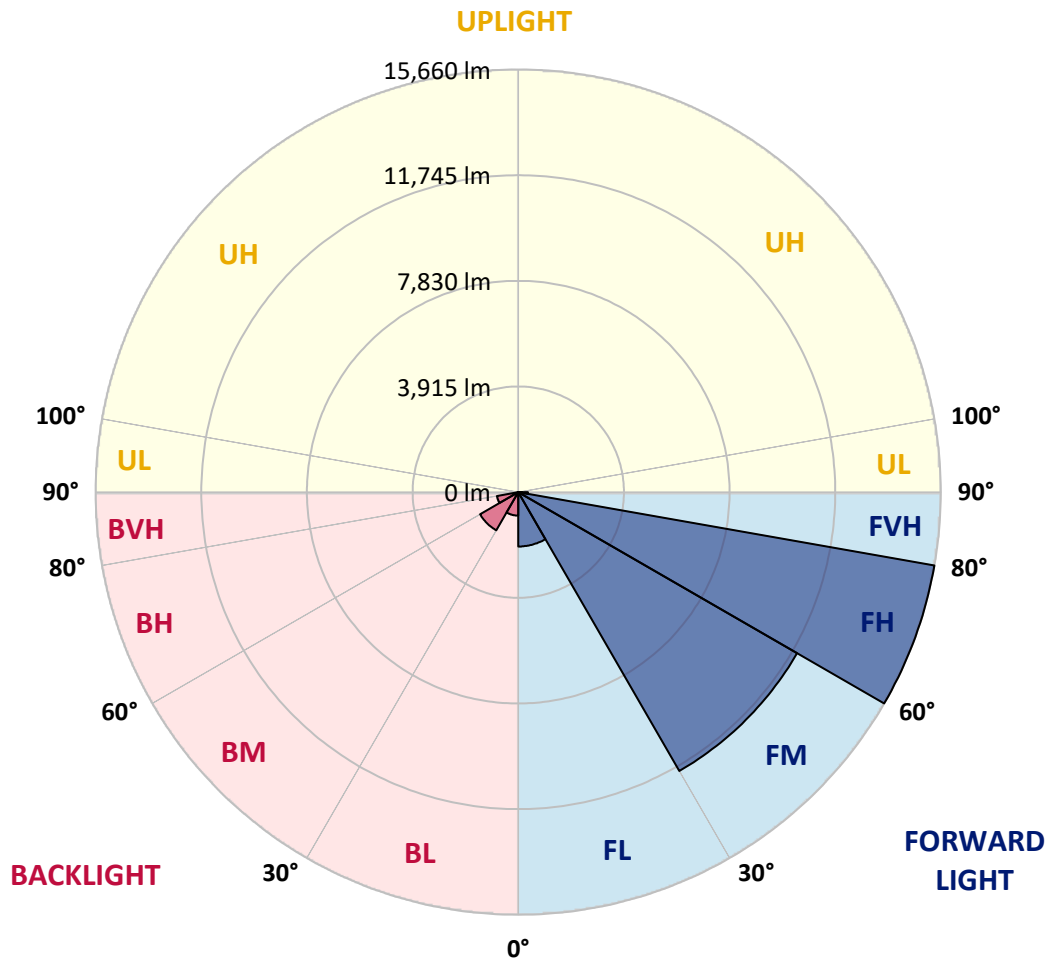


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2014.9	6.1			
FM (30°-60°)	11931.6	35.9			
FH (60°-80°)	15660.0	47.1			G5
FVH (80°-90°)	355.7	1.1			G3/500
BL (0°-30°)	869.8	2.6	B2/1000		
BM (30°-60°)	1634.5	4.9	B2/2500		
BH (60°-80°)	801.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.6	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°	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4
2.5°	3644.7	3620.8	3582.5	3568.1	3529.8	3510.6	3481.9	3467.5	3414.8	3362.2	3328.6
5°	4090.2	4032.7	4051.8	3994.4	3869.8	3769.3	3764.5	3654.3	3534.6	3438.8	3309.5
7.5°	4540.4	4492.5	4420.6	4339.2	4200.3	4051.8	4008.7	3903.4	3735.7	3568.1	3395.7
10°	4880.4	4846.9	4784.6	4669.7	4478.1	4310.5	4315.3	4138.0	3960.8	3769.3	3534.6
12.5°	5091.1	5105.5	5014.5	4899.6	4731.9	4521.2	4516.4	4396.7	4195.5	3994.4	3716.6
15°	5301.9	5354.6	5215.7	5081.6	4866.0	4712.8	4741.5	4597.8	4401.5	4171.6	3865.1
17.5°	5335.4	5349.8	5321.0	5124.7	4966.6	4837.3	4842.1	4746.3	4597.8	4348.8	4085.4
20°	5277.9	5268.3	5234.8	5091.1	4985.8	4909.1	4913.9	4890.0	4808.6	4607.4	4248.2
22.5°	5110.3	5110.3	5067.2	4971.4	4923.5	4995.4	4937.9	5028.9	4942.7	4822.9	4526.0
25°	4976.2	5028.9	5004.9	4942.7	4961.8	5057.6	5086.4	5172.6	5158.2	5009.7	4717.6
27.5°	5119.9	5057.6	5072.0	5000.1	5072.0	5215.7	5230.0	5292.3	5287.5	5167.8	4890.0
30°	5215.7	5273.1	5163.0	5004.9	5081.6	5325.8	5316.2	5397.7	5436.0	5292.3	5052.8
32.5°	5522.2	5474.3	5383.3	5172.6	5182.1	5321.0	5364.1	5469.5	5493.4	5407.2	5210.9
35°	6149.6	6077.8	5680.2	5364.1	5316.2	5383.3	5412.0	5618.0	5661.1	5565.3	5378.5
37.5°	7117.1	6954.2	6475.3	5776.0	5560.5	5546.1	5546.1	5819.1	5982.0	5761.7	5627.6
40°	8501.2	8271.3	7754.0	6537.5	5881.4	5938.9	5996.3	6144.8	6125.7	5982.0	5953.2
42.5°	10263.7	10086.5	9526.1	7816.3	6494.4	6207.1	6159.2	6360.3	6662.1	6604.6	6585.4
45°	11734.0	11743.6	11384.4	9569.2	7552.9	6824.9	6858.4	7011.7	7519.4	7476.3	7471.5
47.5°	12806.9	12672.8	12620.1	11259.9	9095.1	7998.3	7950.4	8055.8	8716.7	8989.7	9114.2
50°	13783.9	13692.9	13568.4	12902.7	10948.6	9468.7	9420.8	9430.3	10440.9	10824.1	11130.6
52.5°	14995.6	15110.6	14698.7	14291.6	13348.1	11379.6	11326.9	11140.2	12395.0	12921.8	13285.8
55°	16489.9	16274.4	15809.8	16020.6	15642.2	13443.9	13348.1	13127.8	14622.1	14842.4	15225.5
57.5°	16820.4	16657.6	17136.5	17883.6	18247.6	15867.3	15829.0	15431.5	16494.7	16293.6	17376.0
60°	17644.2	17687.3	18353.0	19837.7	20469.9	18664.3	18477.5	17778.3	18309.9	18348.2	19502.5
62.5°	18491.9	18391.3	19880.8	21308.1	22280.3	21312.9	21250.6	19861.7	20465.1	19976.6	21504.4
65°	17869.3	18022.5	20153.8	22543.7	24627.1	23903.9	23851.2	21868.4	22198.9	21590.6	22318.6
67.5°	15656.6	15345.3	18329.1	21978.6	25834.1	26619.5	26562.1	24057.2	23175.9	21581.1	20628.0
70°	11475.4	11207.2	13640.2	18611.6	24105.1	28008.5	28238.3	25580.2	22778.4	19569.5	15915.2
72.5°	5622.8	5627.6	7643.9	12620.1	19071.4	25527.5	25642.5	23453.7	19569.5	14425.7	9013.7
75°	1661.9	1681.1	2830.5	6187.9	12327.9	19387.5	19516.8	17802.2	13563.6	7452.3	3074.8
77.5°	608.3	608.3	938.7	2322.9	6149.6	12236.9	12227.4	10929.4	6868.0	2524.0	718.4
80°	316.1	330.5	488.5	948.3	2662.9	6374.7	6614.2	5349.8	2610.2	1063.2	210.7
82.5°	129.3	143.7	268.2	488.5	1278.8	2236.7	2447.4	2097.8	1135.1	742.4	95.8
85°	38.3	43.1	129.3	273.0	502.9	560.4	622.6	704.0	713.6	574.7	43.1
87.5°	4.8	4.8	52.7	91.0	110.2	119.7	138.9	138.9	364.0	402.3	23.9
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°	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4
2.5°	3290.3	3266.4	3228.1	3141.9	3122.7	3060.4	3055.6	2998.2	3017.3	2979.0	2964.6
5°	3266.4	3213.7	3108.3	3041.3	2974.2	2931.1	2902.4	2878.4	2873.6	2854.5	2844.9
7.5°	3309.5	3237.6	3074.8	2969.4	2854.5	2816.2	2753.9	2749.1	2715.6	2682.1	2682.1
10°	3453.2	3323.8	3146.6	2969.4	2821.0	2696.4	2552.8	2447.4	2409.1	2322.9	2332.4
12.5°	3568.1	3453.2	3194.5	3012.5	2787.4	2504.9	2188.8	1944.5	1829.6	1719.4	1762.5
15°	3730.9	3563.3	3285.5	3022.1	2658.1	2169.6	1652.3	1379.3	1274.0	1250.0	1245.2
17.5°	3908.2	3730.9	3400.5	2998.2	2394.7	1676.3	1216.5	1058.5	1077.6	1106.4	1101.6
20°	4104.5	3889.0	3486.7	2916.7	1978.0	1216.5	996.2	991.4	1020.1	1063.2	1072.8
22.5°	4310.5	4123.7	3592.1	2672.5	1475.1	977.0	957.9	957.9	977.0	1029.7	1020.1
25°	4540.4	4291.3	3644.7	2294.1	1058.5	900.4	910.0	929.1	938.7	981.8	986.6
27.5°	4717.6	4478.1	3659.1	1839.1	862.1	833.4	857.3	881.3	895.6	929.1	943.5
30°	4880.4	4712.8	3582.5	1369.8	790.3	775.9	785.5	819.0	847.7	876.5	876.5
32.5°	5086.4	4846.9	3405.3	972.2	747.1	723.2	718.4	732.8	766.3	799.8	799.8
35°	5297.1	5072.0	3122.7	780.7	708.8	675.3	656.1	641.8	656.1	680.1	699.3
37.5°	5603.6	5412.0	2768.3	718.4	680.1	632.2	593.9	560.4	536.4	531.6	546.0
40°	6039.4	5795.2	2313.3	675.3	646.6	589.1	531.6	474.2	421.5	387.9	392.7
42.5°	6700.4	6360.3	1820.0	651.4	622.6	541.2	459.8	378.4	311.3	277.8	277.8
45°	7643.9	7107.5	1336.2	627.4	593.9	483.7	378.4	282.6	215.5	196.4	201.2
47.5°	9066.3	8007.9	957.9	589.1	555.6	421.5	296.9	201.2	158.1	148.5	153.3
50°	10924.6	9075.9	747.1	546.0	507.7	354.4	220.3	148.5	124.5	119.7	124.5
52.5°	12873.9	10153.5	656.1	507.7	435.8	282.6	162.8	119.7	105.4	100.6	105.4
55°	14540.6	10848.0	569.9	450.2	349.6	210.7	129.3	105.4	91.0	76.6	76.6
57.5°	16226.5	11197.6	450.2	373.6	258.6	158.1	110.2	91.0	76.6	62.3	57.5
60°	17596.3	11446.7	320.9	277.8	182.0	124.5	95.8	81.4	62.3	47.9	43.1
62.5°	18496.7	10733.1	234.7	210.7	134.1	105.4	81.4	67.1	47.9	33.5	33.5
65°	18051.3	9746.4	182.0	148.5	100.6	81.4	67.1	47.9	33.5	19.2	14.4
67.5°	16197.8	7940.8	148.5	110.2	76.6	62.3	52.7	38.3	19.2	4.8	4.8
70°	12083.7	5819.1	119.7	81.4	62.3	47.9	38.3	23.9	9.6	4.8	0.0
72.5°	6609.4	3185.0	95.8	67.1	47.9	38.3	28.7	19.2	9.6	0.0	0.0
75°	2184.0	847.7	71.8	47.9	28.7	23.9	19.2	14.4	4.8	0.0	0.0
77.5°	526.8	220.3	57.5	43.1	23.9	14.4	9.6	4.8	4.8	0.0	0.0
80°	162.8	91.0	43.1	28.7	19.2	14.4	4.8	0.0	0.0	0.0	0.0
82.5°	67.1	43.1	19.2	19.2	14.4	4.8	0.0	0.0	0.0	0.0	0.0
85°	33.5	23.9	14.4	9.6	9.6	4.8	0.0	0.0	0.0	0.0	0.0
87.5°	23.9	9.6	4.8	4.8	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)