

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: P484775

Luminaire Tested: **IFLD-L-SA7D-735-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484775
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-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

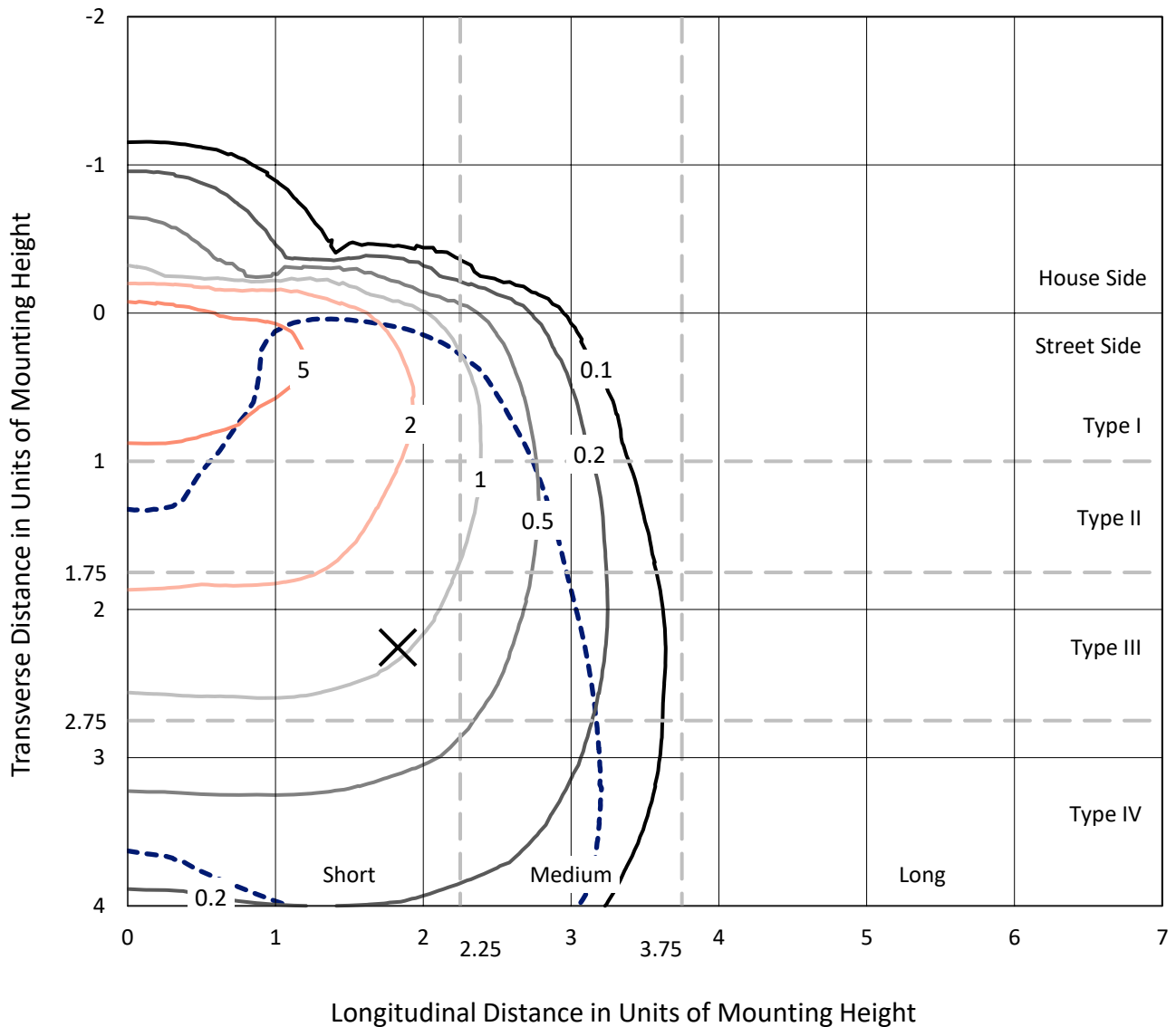
Lumens per Lamp: N/A
Luminaire Lumens: 39745.2 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

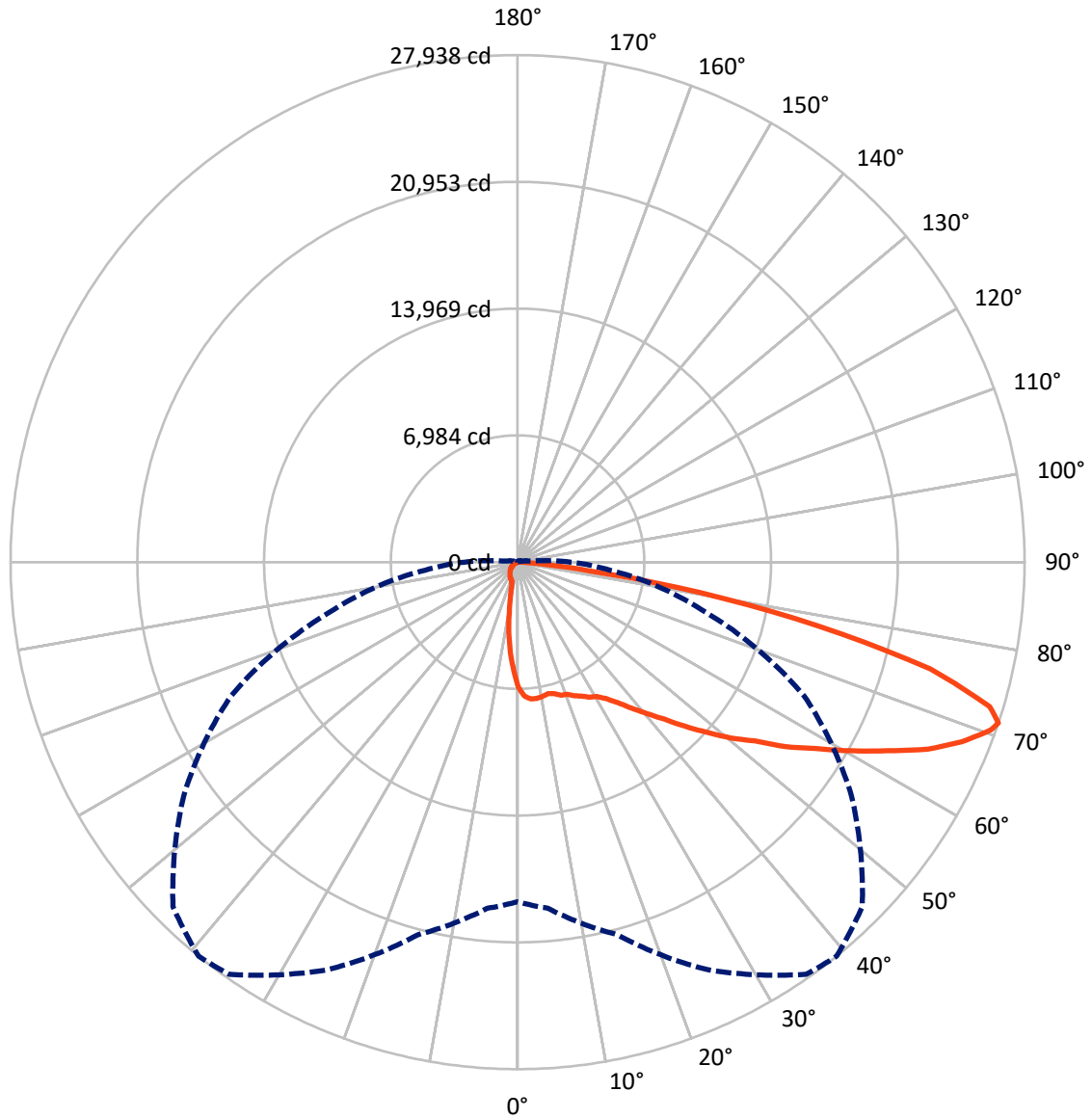
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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
House Side	Lumens	2992.2	0.0	2992.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	36753.0	0.0	36753.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	39745.2	0.0	39745.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.4	1.5
10°-20°	1423.6	3.6
20°-30°	2285.3	5.8
30°-40°	3498.3	8.8
40°-50°	5615.4	14.1
50°-60°	8248.2	20.8
60°-70°	10388.3	26.1
70°-80°	6932.9	17.4
80°-90°	774.8	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°	39745.2	100.0
0°-180°	39745.2	100.0

Coefficient of Utilization



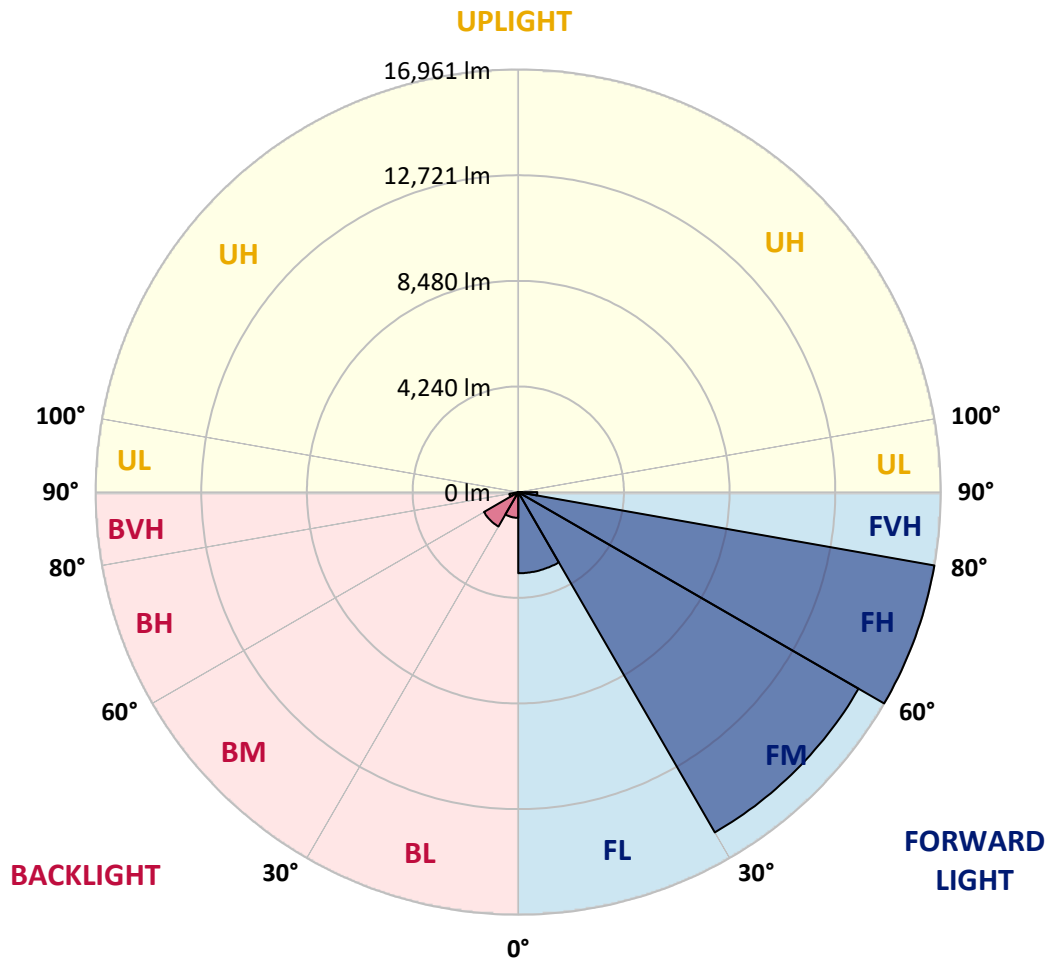
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3254.3	8.2			
FM (30°-60°)	15771.5	39.7			
FH (60°-80°)	16961.0	42.7			G5
FVH (80°-90°)	766.3	1.9			G5
BL (0°-30°)	1033.1	2.6	B3/2500		
BM (30°-60°)	1590.5	4.0	B2/2500		
BH (60°-80°)	360.1	0.9	B1/500		G1/500
BVH (80°-90°)	8.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6917.9	6917.9	6917.9	6917.9	6917.9	6917.9	6917.9	6917.9	6917.9	6917.9	6917.9
2.5°	7454.9	7527.8	7454.9	7423.6	7392.3	7397.5	7314.1	7329.7	7230.7	7100.4	6996.1
5°	7689.5	7788.5	7710.3	7673.8	7668.6	7569.5	7527.8	7428.8	7308.9	7105.6	6980.5
7.5°	7668.6	7647.7	7684.2	7653.0	7585.2	7585.2	7538.3	7397.5	7277.6	7048.2	6834.5
10°	7512.2	7574.8	7543.5	7507.0	7522.6	7527.8	7439.2	7340.2	7303.7	7074.3	6725.0
12.5°	7496.6	7392.3	7507.0	7512.2	7444.4	7439.2	7428.8	7402.7	7288.0	7079.5	6751.1
15°	7444.4	7402.7	7517.4	7522.6	7538.3	7522.6	7538.3	7517.4	7402.7	7282.8	6865.8
17.5°	7486.1	7439.2	7600.8	7679.0	7642.5	7715.5	7689.5	7595.6	7496.6	7355.8	6975.2
20°	7496.6	7564.3	7741.6	7772.9	7887.6	7767.7	7762.4	7663.4	7600.8	7449.6	7043.0
22.5°	7689.5	7720.7	7939.7	8007.5	8012.7	7997.0	7866.7	7752.0	7725.9	7538.3	7058.7
25°	7981.4	8090.9	8189.9	8231.6	8247.3	8174.3	8038.7	7892.8	7830.2	7710.3	7220.3
27.5°	8497.5	8429.7	8518.3	8580.9	8403.7	8429.7	8257.7	8132.6	8043.9	7939.7	7407.9
30°	8956.3	8893.7	8898.9	8888.5	8737.3	8596.5	8549.6	8330.7	8221.2	8262.9	7699.9
32.5°	9368.1	9232.6	9347.2	9295.1	9013.6	8971.9	8935.4	8659.1	8680.0	8872.8	8137.8
35°	9748.7	9701.7	9795.6	9701.7	9514.1	9503.6	9467.1	9227.3	9342.0	9618.3	8888.5
37.5°	10097.9	10113.6	10228.3	10181.4	10197.0	10207.4	10186.6	9931.1	10259.6	10879.9	9764.3
40°	10421.2	10400.3	10681.8	10827.8	10859.1	10973.8	10973.8	10911.2	11416.9	12115.4	10979.0
42.5°	10765.2	10817.4	11182.3	11427.3	11724.5	11823.5	11959.1	11990.3	12772.3	13569.9	12219.7
45°	11328.3	11239.6	11703.6	12282.3	12542.9	12892.2	13100.7	13278.0	14221.6	15316.3	13460.5
47.5°	12042.5	11865.2	12271.8	13111.2	13715.9	14002.6	14378.0	14612.6	15535.3	16666.6	14633.4
50°	12834.9	12652.4	12850.5	14007.8	14711.6	15232.9	15712.5	16009.7	17125.3	18178.4	15488.4
52.5°	13731.5	13564.7	13596.0	14941.0	15978.4	16359.0	16989.8	17432.9	18543.3	19090.7	15790.7
55°	14685.6	14643.8	14544.8	15853.3	17088.8	17943.8	18324.4	18856.1	19997.8	19585.9	16119.2
57.5°	15644.8	15514.4	15655.2	17062.8	18871.7	19382.6	19909.2	20227.2	20805.8	20018.6	15994.1
60°	16546.7	16557.1	16755.2	18376.5	20388.8	21113.4	21587.8	21394.9	21634.7	20206.3	15707.3
62.5°	17307.8	17286.9	17787.4	19851.8	22395.9	22885.9	23240.4	22380.2	22020.5	20388.8	15206.9
65°	17990.7	18225.3	19012.5	21608.7	24283.0	24846.1	24632.3	23313.4	22395.9	19851.8	13799.3
67.5°	18506.8	18856.1	20222.0	23261.2	26013.8	26410.0	26112.9	24022.4	21952.7	17745.7	11239.6
70°	18809.2	19163.7	21087.3	24637.5	27395.3	27682.0	26983.5	23475.0	19367.0	12850.5	7011.7
71°	18715.3	19148.0	21254.2	24783.5	27723.7	27937.5	26853.1	22463.6	17417.3	10760.0	5114.1
72.5°	17865.6	18272.2	20560.8	24679.2	27327.5	27197.2	25836.6	20034.3	13710.7	6860.6	2643.1
75°	13126.8	13564.7	17646.6	21348.0	24392.5	23495.8	20910.1	14060.0	7152.5	2100.9	771.6
77.5°	6537.3	6610.3	10952.9	15498.8	17891.7	17000.2	14013.0	7840.6	2674.4	620.4	385.8
80°	3013.2	3034.1	4108.0	8028.3	10817.4	10181.4	7851.1	3868.2	1209.5	328.4	302.4
82.5°	2054.0	2085.3	2476.3	3326.0	4697.1	3962.0	3180.0	2476.3	693.4	198.1	297.2
85°	375.3	344.1	1386.7	1762.1	1814.2	1230.3	1100.0	2142.6	260.7	114.7	260.7
87.5°	0.0	5.2	192.9	719.4	646.4	286.7	375.3	521.3	26.1	36.5	46.9
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°	6917.9	6917.9	6917.9	6917.9	6917.9	6917.9	6917.9	6917.9	6917.9	6917.9	6917.9
2.5°	6907.5	6850.1	6657.2	6443.5	6250.6	6099.4	5906.5	5817.9	5677.2	5599.0	5593.8
5°	6808.4	6652.0	6318.4	5958.7	5557.3	5223.6	4853.5	4645.0	4405.1	4332.2	4316.5
7.5°	6641.6	6417.4	5927.4	5421.7	4806.6	4217.5	3763.9	3279.1	2981.9	2856.8	2809.9
10°	6537.3	6266.3	5599.0	4843.1	3982.9	3154.0	2518.0	2001.9	1730.8	1600.4	1569.2
12.5°	6537.3	6245.4	5333.1	4290.5	3148.8	2158.3	1558.7	1261.6	1173.0	1141.7	1141.7
15°	6521.7	6203.7	5077.6	3722.2	2330.3	1449.3	1162.5	1100.0	1089.6	1084.3	1079.1
17.5°	6599.9	6130.7	4817.0	3112.3	1647.4	1141.7	1068.7	1058.3	1047.9	1047.9	1037.4
20°	6657.2	6089.0	4504.2	2465.8	1230.3	1058.3	1027.0	1011.4	1006.1	1000.9	1011.4
22.5°	6610.3	6026.4	4118.4	1845.5	1073.9	1006.1	985.3	969.7	959.2	959.2	964.4
25°	6698.9	5969.1	3732.6	1391.9	1006.1	959.2	938.4	927.9	922.7	917.5	907.1
27.5°	6818.9	5995.2	3273.9	1120.8	948.8	912.3	891.5	881.0	875.8	865.4	875.8
30°	6964.8	5990.0	2768.2	980.1	896.7	860.2	839.3	834.1	823.7	818.5	823.7
32.5°	7215.1	6125.5	2246.9	907.1	839.3	808.0	787.2	782.0	776.8	771.6	766.3
35°	7752.0	6292.3	1756.8	849.7	787.2	750.7	735.1	724.6	719.4	714.2	709.0
37.5°	8414.1	6662.5	1339.8	797.6	735.1	698.6	682.9	677.7	656.9	651.6	646.4
40°	9243.0	7058.7	1032.2	740.3	688.1	651.6	636.0	620.4	594.3	583.9	573.5
42.5°	10275.2	7444.4	849.7	688.1	636.0	609.9	583.9	557.8	537.0	516.1	505.7
45°	11307.4	7892.8	745.5	641.2	594.3	563.0	542.2	505.7	469.2	437.9	432.7
47.5°	12167.6	8054.4	682.9	589.1	552.6	526.5	495.3	448.3	396.2	364.9	359.7
50°	12808.8	7960.5	620.4	537.0	505.7	479.6	437.9	380.6	328.4	297.2	286.7
52.5°	12933.9	7548.7	563.0	495.3	458.8	427.5	380.6	318.0	260.7	229.4	224.2
55°	12845.3	6865.8	516.1	458.8	417.1	370.1	318.0	255.4	203.3	172.0	166.8
57.5°	12662.8	6057.7	464.0	411.8	364.9	318.0	260.7	208.5	151.2	119.9	119.9
60°	12042.5	4957.7	411.8	359.7	312.8	271.1	213.7	151.2	104.3	78.2	73.0
62.5°	11177.1	3810.8	359.7	307.6	271.1	224.2	166.8	109.5	62.6	41.7	41.7
65°	9597.5	2669.2	302.4	255.4	224.2	182.5	125.1	67.8	36.5	15.6	15.6
67.5°	7293.3	1652.6	250.2	213.7	192.9	146.0	88.6	41.7	15.6	5.2	0.0
70°	4186.2	860.2	198.1	172.0	151.2	109.5	62.6	20.9	10.4	0.0	0.0
71°	2924.6	636.0	177.2	151.2	135.5	99.1	52.1	15.6	5.2	0.0	0.0
72.5°	1464.9	422.3	151.2	125.1	109.5	78.2	41.7	15.6	5.2	0.0	0.0
75°	521.3	271.1	104.3	83.4	78.2	57.3	26.1	10.4	5.2	0.0	0.0
77.5°	359.7	219.0	73.0	52.1	52.1	36.5	15.6	5.2	5.2	0.0	0.0
80°	328.4	119.9	46.9	31.3	26.1	20.9	10.4	5.2	0.0	0.0	0.0
82.5°	328.4	88.6	26.1	20.9	15.6	10.4	5.2	0.0	0.0	0.0	0.0
85°	229.4	46.9	15.6	15.6	10.4	5.2	0.0	0.0	0.0	0.0	0.0
87.5°	36.5	15.6	10.4	5.2	5.2	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)