

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: P484390

Luminaire Tested: **IFLD-L-SA8D-735-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484390
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-735-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

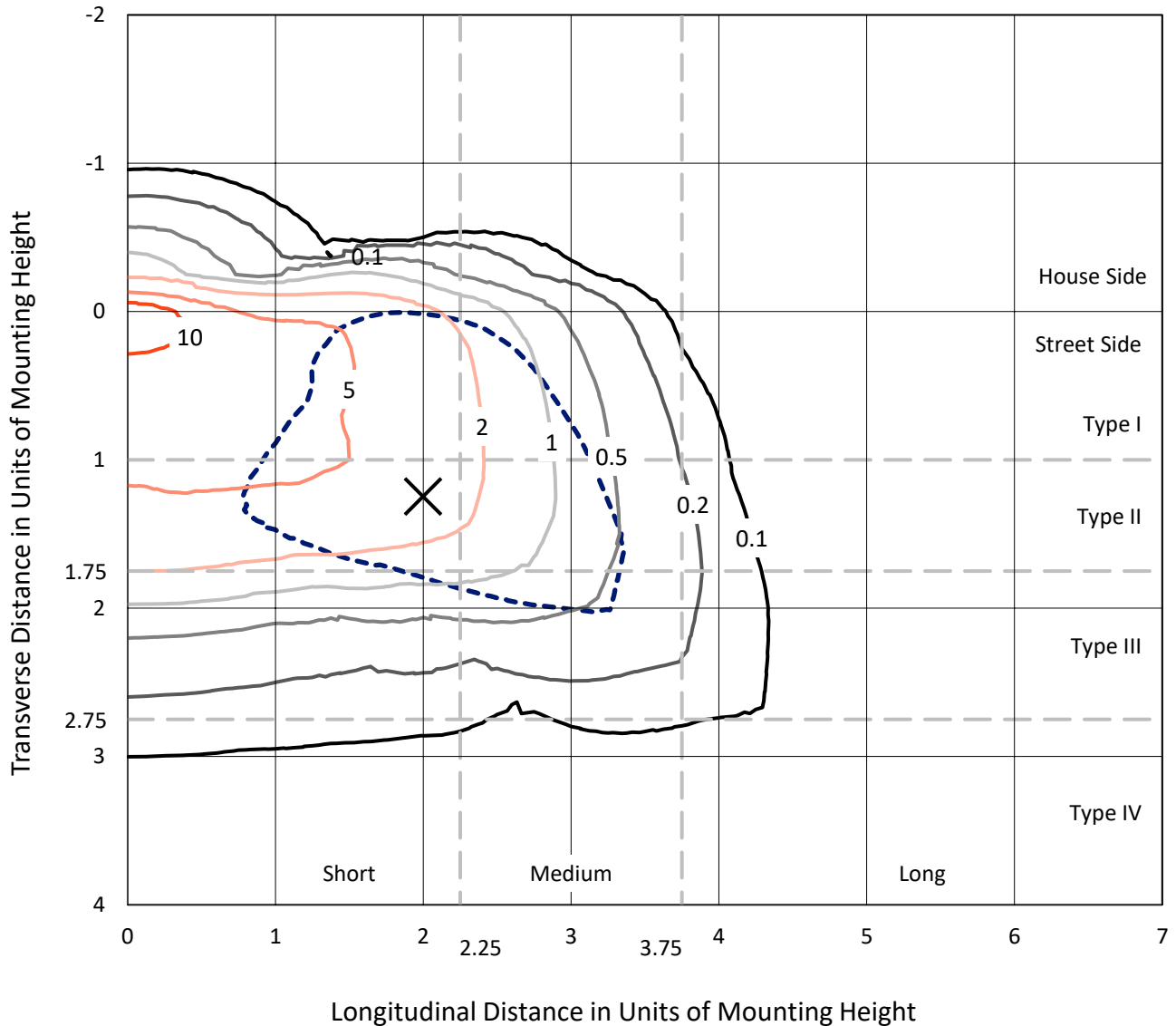
Lumens per Lamp: N/A
Luminaire Lumens: 45982.8 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

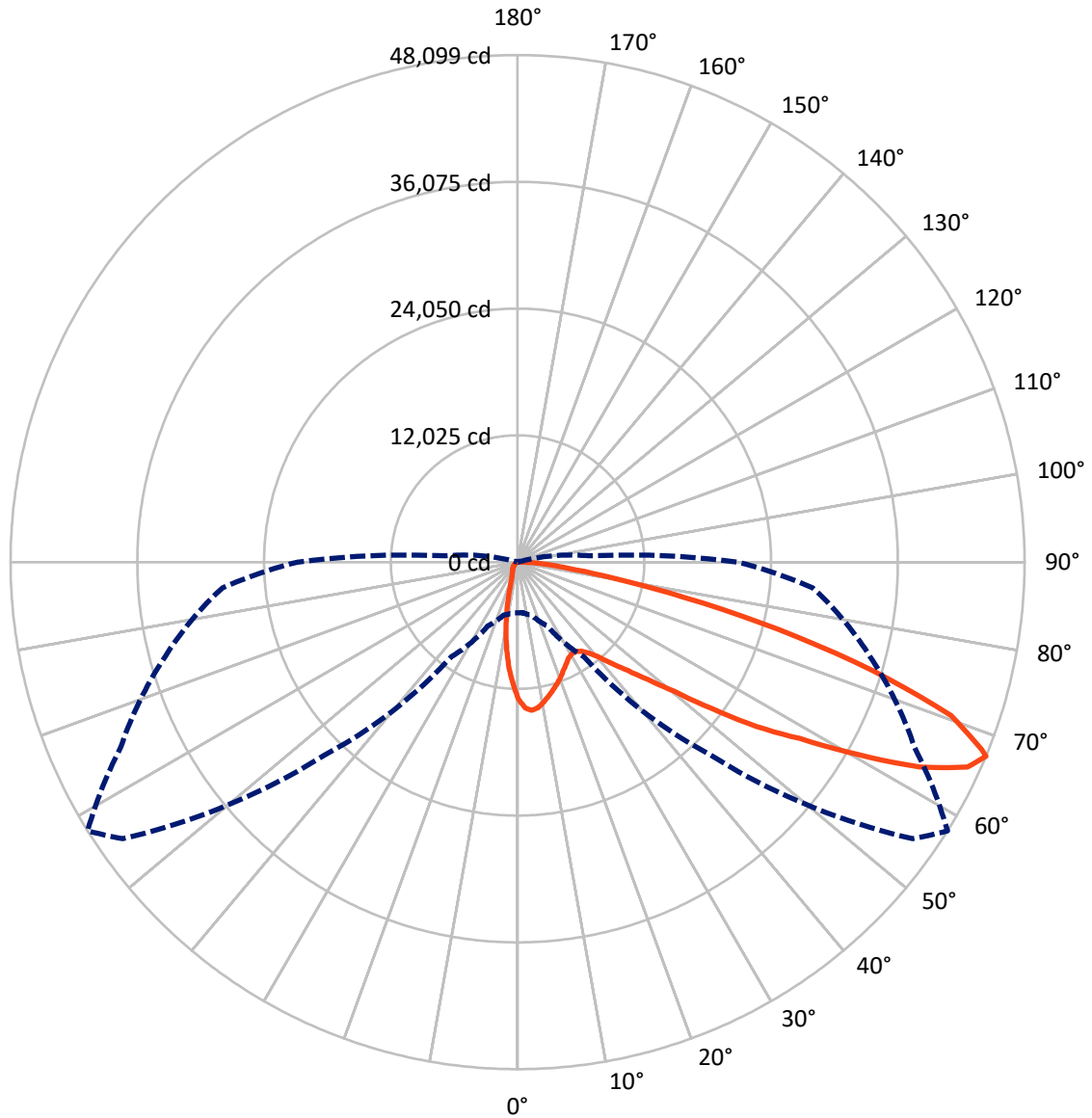
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3800.8	0.0	3800.8
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	42182.0	0.0	42182.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	45982.8	0.0	45982.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1033.7	2.2
10°-20°	2144.0	4.7
20°-30°	2844.7	6.2
30°-40°	3941.8	8.6
40°-50°	6431.9	14.0
50°-60°	11305.2	24.6
60°-70°	12521.4	27.2
70°-80°	5188.9	11.3
80°-90°	571.2	1.2
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°	45982.8	100.0
0°-180°	45982.8	100.0

Coefficient of Utilization



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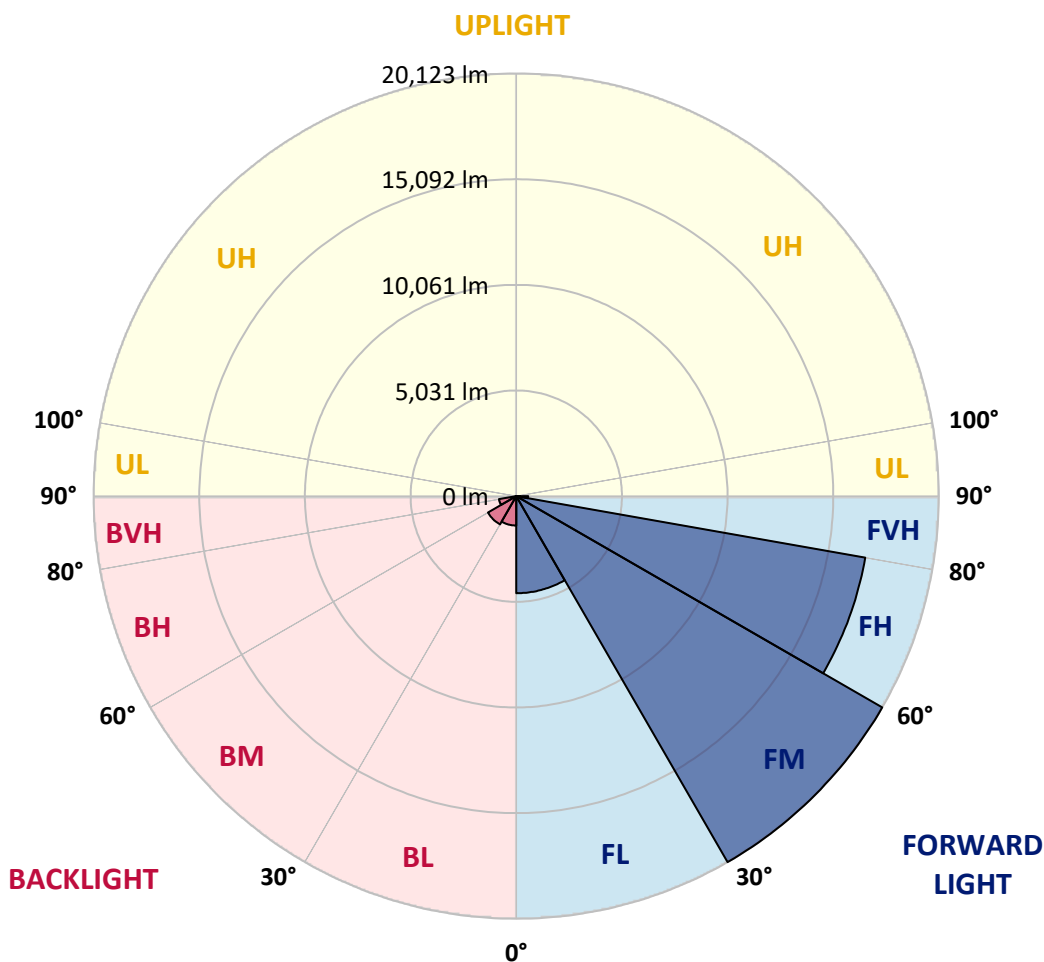
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4622.6	10.1			
FM (30°-60°)	20123.0	43.8			
FH (60°-80°)	16874.6	36.7			G5
FVH (80°-90°)	561.8	1.2			G4/750
BL (0°-30°)	1399.8	3.0	B3/2500		
BM (30°-60°)	1555.9	3.4	B2/2500		
BH (60°-80°)	835.6	1.8	B2/1000		G2/1000
BVH (80°-90°)	9.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13027.5	13027.5	13027.5	13027.5	13027.5	13027.5	13027.5	13027.5	13027.5	13027.5	13027.5
2.5°	14175.2	14224.1	14266.8	14187.5	14254.6	14156.9	13906.6	13851.7	13809.0	13436.6	13222.9
5°	14169.1	14114.2	14156.9	14193.6	14102.0	14175.2	14114.2	14120.3	13955.5	13619.7	13021.4
7.5°	13222.9	13198.5	13222.9	13399.9	13601.4	13760.1	13851.7	13943.3	13833.4	13332.8	12752.8
10°	11947.0	12069.1	12136.3	12453.7	12765.0	13058.1	13345.0	13515.9	13485.4	13283.9	12459.8
12.5°	11055.7	11019.1	11263.3	11470.8	11782.2	12374.3	12874.9	13033.7	13216.8	12936.0	12075.2
15°	10231.6	10133.9	10280.4	10640.6	11171.7	11641.8	12343.8	12581.9	12813.9	12887.1	11867.6
17.5°	9444.1	9492.9	9645.5	9969.1	10469.7	11129.0	11788.3	12130.1	12685.7	12588.0	11556.3
20°	9065.6	9169.3	9224.3	9389.1	9737.1	10396.4	11379.3	11654.0	12246.1	12581.9	11251.1
22.5°	9083.9	9083.9	8955.7	9053.4	9370.8	9883.6	10823.7	11129.0	12069.1	12264.5	10976.4
25°	9279.2	9157.1	9163.2	9047.2	9181.6	9462.4	10323.1	10695.5	11708.9	12295.0	10829.8
27.5°	9425.7	9401.3	9364.7	9334.2	9163.2	9206.0	9993.5	10298.7	11568.5	12258.3	10604.0
30°	9956.9	9847.0	9810.3	9743.2	9517.3	9309.8	9731.0	10115.6	11458.6	12343.8	10475.8
32.5°	10402.5	10420.8	10451.3	10256.0	10060.6	9547.8	9804.2	10109.5	11379.3	12539.2	10604.0
35°	10964.1	11043.5	11055.7	10994.7	10787.1	10280.4	10109.5	10372.0	11513.6	12887.1	10616.2
37.5°	11818.8	11733.3	11965.3	11989.7	11843.2	11171.7	10817.6	10921.4	11910.4	13442.7	11080.1
40°	12374.3	12478.1	12911.6	13180.2	12929.9	12319.4	11843.2	11824.9	12484.2	14315.7	11654.0
42.5°	12990.9	13222.9	13699.1	14279.0	14248.5	13680.8	13198.5	13119.1	13503.7	15579.3	12563.6
45°	13833.4	14040.9	14706.4	15579.3	16055.5	15573.2	14846.8	14688.0	14743.0	17300.9	14114.2
47.5°	15231.4	15176.4	16134.9	16995.6	17777.0	17404.7	17093.3	16629.4	16586.6	19327.7	16257.0
50°	16812.5	16800.3	17655.0	18631.7	19535.2	20261.7	19742.8	19236.1	19248.3	22080.9	18778.2
52.5°	18314.3	18552.4	19474.2	20444.8	21995.4	22776.8	23277.4	23076.0	22105.3	24541.1	21476.5
55°	19107.9	19315.4	20231.2	21903.9	24351.9	26360.3	27715.6	27544.7	25670.5	27312.7	24138.2
57.5°	18357.0	18497.4	19736.7	21928.3	26000.2	30481.0	31781.4	31567.7	29357.8	29431.0	27355.4
60°	15213.1	15432.8	17276.5	19846.6	25359.2	33655.5	37379.4	37055.9	32715.4	32111.0	29424.9
62.5°	10536.8	10683.3	12197.3	15396.2	22319.0	34760.5	42666.1	42843.2	36256.1	34198.8	30041.5
65°	6825.1	6812.9	7679.8	9847.0	15817.4	31415.1	45791.8	46890.6	39674.8	34516.3	29852.3
67°	4822.8	4804.4	5213.5	6678.6	10951.9	25884.2	45736.8	48099.4	41530.7	34607.9	28100.2
67.5°	4450.4	4432.1	4822.8	6141.4	9883.6	24071.1	45053.1	47476.7	42183.9	34479.7	27331.0
70°	3455.3	3406.5	3553.0	4230.6	5756.8	15567.1	38557.6	43612.4	40828.6	31280.8	21824.5
72.5°	2496.8	2551.8	2783.8	3473.6	4517.5	8375.7	29388.3	35267.2	34101.2	23576.6	13870.0
75°	1739.9	1788.7	2161.1	2832.6	4145.1	5079.2	19871.0	25578.9	23753.6	13015.3	5909.4
77.5°	909.6	970.7	1379.7	2264.9	3766.6	3931.5	11873.7	16220.3	12588.0	4633.5	1630.0
80°	421.2	451.8	689.8	1605.6	3150.1	3455.3	6922.8	9022.8	5036.4	1037.8	561.6
82.5°	183.1	201.5	317.4	921.8	2234.3	3021.9	4285.5	4731.2	1825.3	335.8	348.0
85°	36.6	42.7	122.1	488.4	1080.5	1831.4	3009.6	2808.2	915.7	164.8	274.7
87.5°	0.0	0.0	30.5	140.4	293.0	543.3	1275.9	1275.9	280.8	85.5	103.8
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°	13027.5	13027.5	13027.5	13027.5	13027.5	13027.5	13027.5	13027.5	13027.5	13027.5	13027.5
2.5°	13033.7	12813.9	12331.6	11886.0	11568.5	11208.3	10732.2	10518.5	10439.1	10329.2	10164.4
5°	12691.8	12423.2	11599.0	10768.8	9859.2	9169.3	8436.8	8009.4	7685.9	7484.4	7417.3
7.5°	12209.5	11660.1	10549.0	9218.2	8040.0	7014.4	5903.3	5152.4	4670.1	4474.8	4291.6
10°	11824.9	11110.7	9419.6	7765.2	6196.3	4694.6	3443.1	2783.8	2283.2	2093.9	2069.5
12.5°	11324.3	10469.7	8363.5	6281.8	4310.0	2796.0	1904.7	1654.4	1514.0	1489.6	1471.2
15°	10909.2	9889.7	7362.3	4865.5	2789.9	1746.0	1483.5	1422.4	1385.8	1373.6	1379.7
17.5°	10628.4	9267.0	6336.7	3540.8	1837.5	1428.5	1367.5	1330.8	1312.5	1306.4	1288.1
20°	10072.8	8742.0	5323.3	2478.5	1434.6	1318.6	1269.8	1239.3	1221.0	1214.8	1208.7
22.5°	9755.4	8076.6	4310.0	1727.6	1275.9	1196.5	1159.9	1135.5	1105.0	1086.6	1080.5
25°	9438.0	7588.2	3406.5	1343.0	1159.9	1105.0	1050.0	1019.5	970.7	946.2	940.1
27.5°	9065.6	7105.9	2625.0	1166.0	1043.9	989.0	934.0	885.2	824.1	799.7	787.5
30°	8851.9	6635.9	1977.9	1043.9	958.4	885.2	818.0	757.0	689.8	647.1	634.9
32.5°	8742.0	6208.5	1483.5	952.3	866.9	787.5	702.0	628.8	567.7	531.1	525.0
35°	8607.7	5793.4	1166.0	866.9	781.4	695.9	610.5	537.2	476.2	445.6	433.4
37.5°	8748.1	5549.2	970.7	799.7	714.3	616.6	525.0	451.8	402.9	372.4	366.3
40°	9132.7	5347.8	842.5	738.7	647.1	543.3	457.9	384.6	341.9	317.4	305.2
42.5°	9724.9	5347.8	763.1	677.6	586.1	476.2	390.7	335.8	293.0	268.6	262.5
45°	10799.3	5512.6	695.9	616.6	512.8	409.0	335.8	280.8	238.1	213.7	207.6
47.5°	12307.2	5891.1	641.0	561.6	457.9	360.2	293.0	238.1	195.4	170.9	164.8
50°	14334.0	6751.9	586.1	494.5	409.0	311.3	244.2	189.2	152.6	128.2	122.1
52.5°	16861.3	7972.8	531.1	457.9	348.0	262.5	195.4	152.6	116.0	97.7	91.6
55°	19535.2	9468.5	464.0	409.0	299.1	219.8	158.7	116.0	85.5	73.3	67.2
57.5°	22227.4	10622.3	409.0	354.1	244.2	177.0	128.2	91.6	61.0	48.8	42.7
60°	23655.9	10732.2	354.1	293.0	195.4	140.4	97.7	67.2	42.7	30.5	24.4
62.5°	23875.7	9755.4	305.2	238.1	158.7	109.9	67.2	48.8	24.4	12.2	12.2
65°	22746.3	8131.5	262.5	189.2	122.1	79.4	48.8	30.5	12.2	6.1	0.0
67°	20914.9	6812.9	225.9	158.7	97.7	61.0	36.6	18.3	6.1	0.0	0.0
67.5°	20206.7	6446.6	213.7	146.5	91.6	54.9	30.5	18.3	6.1	0.0	0.0
70°	15683.1	4603.0	158.7	103.8	67.2	42.7	24.4	12.2	0.0	0.0	0.0
72.5°	9608.9	2692.2	122.1	73.3	48.8	30.5	18.3	6.1	0.0	0.0	0.0
75°	4029.1	927.9	103.8	54.9	36.6	18.3	12.2	6.1	0.0	0.0	0.0
77.5°	1050.0	348.0	73.3	36.6	24.4	18.3	12.2	6.1	0.0	0.0	0.0
80°	427.3	158.7	48.8	24.4	24.4	18.3	12.2	6.1	0.0	0.0	0.0
82.5°	280.8	73.3	30.5	24.4	18.3	12.2	6.1	0.0	0.0	0.0	0.0
85°	213.7	42.7	18.3	18.3	12.2	6.1	0.0	0.0	0.0	0.0	0.0
87.5°	91.6	24.4	18.3	12.2	12.2	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)