

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: P484273

Luminaire Tested: **IFLD-L-SA8D-722-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484273
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

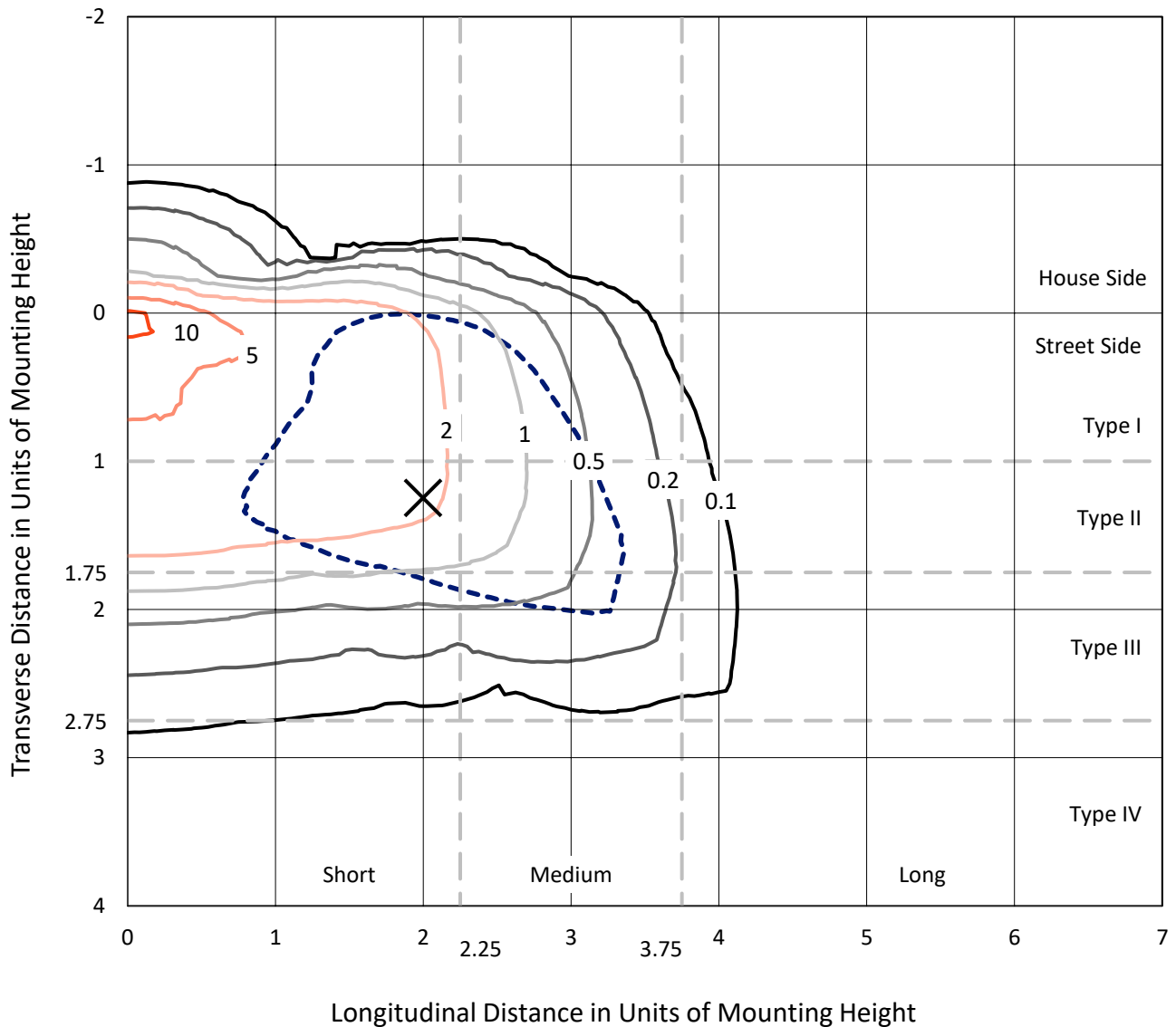
Lumens per Lamp: N/A
Luminaire Lumens: 34341.4 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

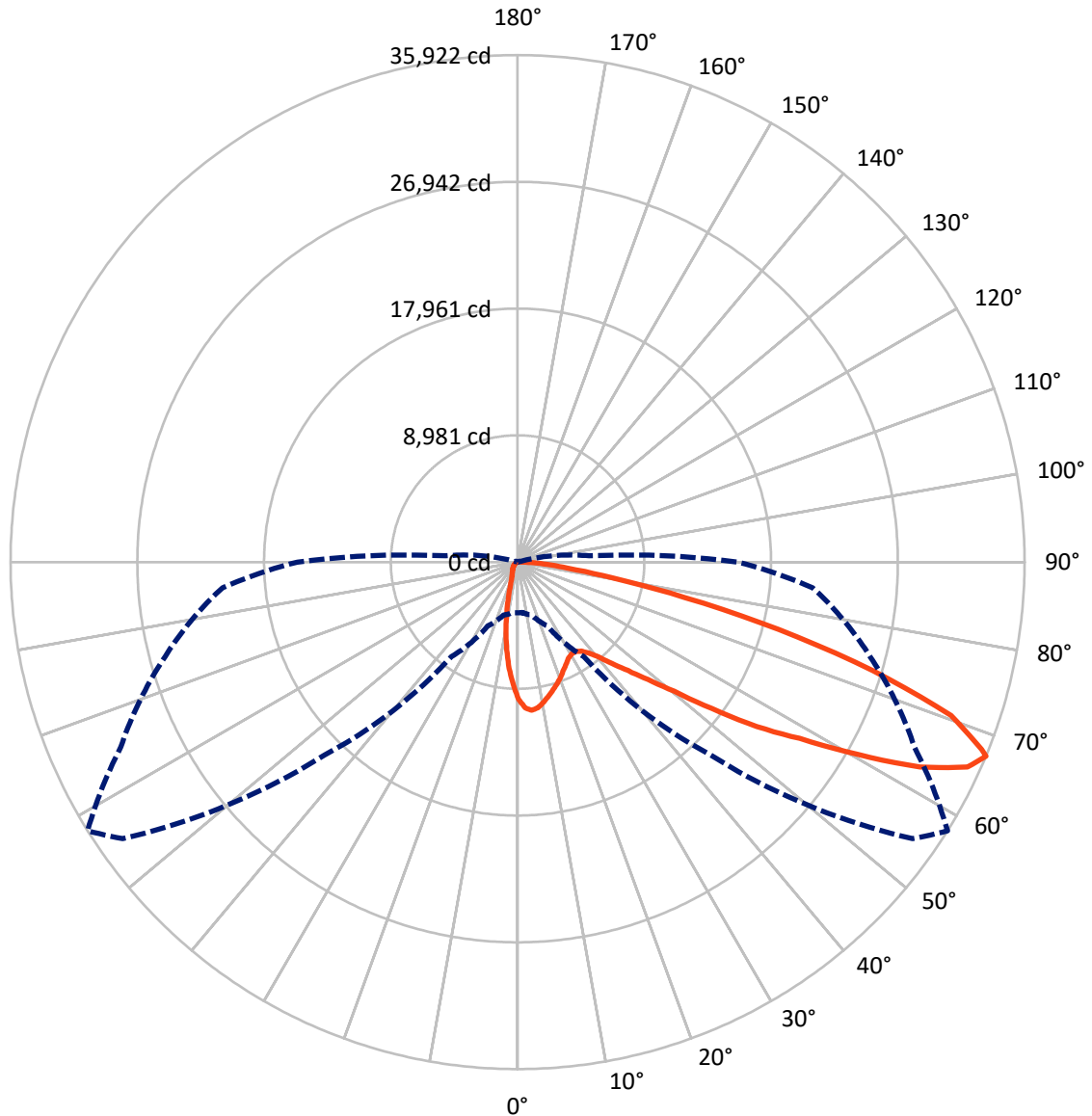
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 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	2838.5	0.0	2838.5
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	31502.8	0.0	31502.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	34341.4	0.0	34341.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.0	2.2
10°-20°	1601.2	4.7
20°-30°	2124.5	6.2
30°-40°	2943.9	8.6
40°-50°	4803.5	14.0
50°-60°	8443.1	24.6
60°-70°	9351.4	27.2
70°-80°	3875.2	11.3
80°-90°	426.6	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°	34341.4	100.0
0°-180°	34341.4	100.0



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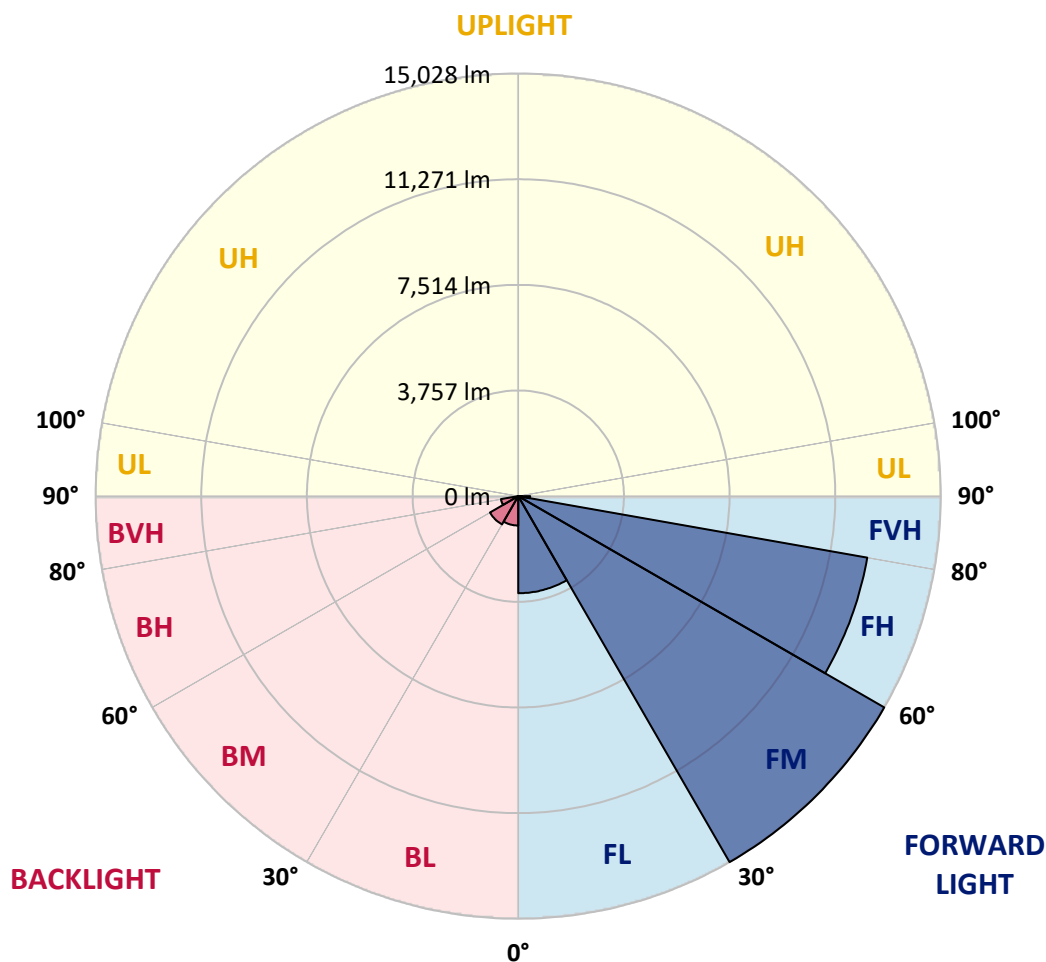
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3452.3	10.1			
FM (30°-60°)	15028.5	43.8			
FH (60°-80°)	12602.5	36.7			G5
FVH (80°-90°)	419.6	1.2			G3/500
BL (0°-30°)	1045.4	3.0	B3/2500		
BM (30°-60°)	1162.0	3.4	B2/2500		
BH (60°-80°)	624.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.0	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°	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4
2.5°	10586.5	10623.0	10654.9	10595.6	10645.8	10572.8	10385.9	10344.9	10313.0	10034.9	9875.3
5°	10582.0	10540.9	10572.8	10600.2	10531.8	10586.5	10540.9	10545.5	10422.4	10171.6	9724.8
7.5°	9875.3	9857.0	9875.3	10007.5	10158.0	10276.5	10344.9	10413.3	10331.2	9957.3	9524.2
10°	8922.4	9013.6	9063.7	9300.8	9533.3	9752.2	9966.5	10094.1	10071.3	9920.9	9305.4
12.5°	8256.8	8229.4	8411.8	8566.8	8799.3	9241.5	9615.4	9733.9	9870.7	9661.0	9018.1
15°	7641.3	7568.3	7677.7	7946.7	8343.4	8694.4	9218.8	9396.6	9569.8	9624.5	8863.1
17.5°	7053.1	7089.6	7203.6	7445.2	7819.1	8311.5	8803.9	9059.2	9474.1	9401.1	8630.6
20°	6770.4	6848.0	6889.0	7012.1	7272.0	7764.4	8498.4	8703.6	9145.8	9396.6	8402.7
22.5°	6784.1	6784.1	6688.4	6761.3	6998.4	7381.4	8083.5	8311.5	9013.6	9159.5	8197.5
25°	6930.0	6838.8	6843.4	6756.8	6857.1	7066.8	7709.6	7987.8	8744.6	9182.3	8088.1
27.5°	7039.4	7021.2	6993.9	6971.1	6843.4	6875.3	7463.5	7691.4	8639.7	9154.9	7919.4
30°	7436.1	7354.0	7326.7	7276.5	7107.8	6952.8	7267.4	7554.6	8557.7	9218.8	7823.6
32.5°	7768.9	7782.6	7805.4	7659.5	7513.6	7130.6	7322.1	7550.1	8498.4	9364.6	7919.4
35°	8188.4	8247.6	8256.8	8211.2	8056.1	7677.7	7550.1	7746.1	8598.7	9624.5	7928.5
37.5°	8826.7	8762.8	8936.1	8954.3	8844.9	8343.4	8078.9	8156.5	8895.0	10039.4	8275.0
40°	9241.5	9319.1	9642.8	9843.4	9656.4	9200.5	8844.9	8831.2	9323.6	10691.4	8703.6
42.5°	9702.0	9875.3	10230.9	10664.0	10641.2	10217.2	9857.0	9797.8	10085.0	11635.1	9382.9
45°	10331.2	10486.2	10983.2	11635.1	11990.8	11630.6	11088.0	10969.5	11010.5	12920.8	10540.9
47.5°	11375.3	11334.2	12050.0	12692.9	13276.5	12998.3	12765.8	12419.3	12387.4	14434.5	12141.2
50°	12556.1	12547.0	13185.3	13914.8	14589.5	15132.1	14744.5	14366.1	14375.2	16490.7	14024.2
52.5°	13677.7	13855.5	14543.9	15268.8	16426.9	17010.5	17384.3	17233.9	16509.0	18328.1	16039.4
55°	14270.4	14425.4	15109.3	16358.5	18186.7	19686.7	20698.9	20571.2	19171.5	20398.0	18027.2
57.5°	13709.6	13814.4	14740.0	16376.7	19417.7	22764.2	23735.3	23575.7	21925.3	21980.0	20429.9
60°	11361.6	11525.7	12902.6	14822.0	18939.0	25135.0	27916.1	27674.5	24432.9	23981.5	21975.5
62.5°	7869.2	7978.6	9109.3	11498.4	16668.5	25960.2	31864.4	31996.6	27077.2	25540.8	22435.9
65°	5097.2	5088.1	5735.5	7354.0	11813.0	23461.8	34198.7	35019.4	29630.4	25777.9	22294.6
67°	3601.8	3588.1	3893.6	4987.8	8179.2	19331.1	34157.7	35922.1	31016.4	25846.2	20986.1
67.5°	3323.7	3310.0	3601.8	4586.6	7381.4	17977.0	33647.1	35457.1	31504.2	25750.5	20411.6
70°	2580.5	2544.0	2653.5	3159.5	4299.3	11626.0	28796.1	32571.1	30492.1	23361.5	16299.2
72.5°	1864.7	1905.8	2079.0	2594.2	3373.8	6255.3	21948.1	26338.6	25467.8	17607.7	10358.6
75°	1299.4	1335.9	1614.0	2115.5	3095.7	3793.3	14840.3	19103.2	17739.9	9720.3	4413.3
77.5°	679.3	724.9	1030.4	1691.5	2813.0	2936.1	8867.7	12113.9	9401.1	3460.5	1217.3
80°	314.6	337.4	515.2	1199.1	2352.6	2580.5	5170.2	6738.5	3761.4	775.1	419.4
82.5°	136.8	150.5	237.1	688.4	1668.7	2256.8	3200.6	3533.4	1363.2	250.8	259.9
85°	27.4	31.9	91.2	364.7	807.0	1367.8	2247.7	2097.2	683.9	123.1	205.2
87.5°	0.0	0.0	22.8	104.9	218.8	405.8	952.9	952.9	209.7	63.8	77.5
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°	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4	9729.4
2.5°	9733.9	9569.8	9209.6	8876.8	8639.7	8370.7	8015.1	7855.5	7796.3	7714.2	7591.1
5°	9478.6	9278.0	8662.5	8042.5	7363.1	6848.0	6300.8	5981.7	5740.1	5589.6	5539.5
7.5°	9118.4	8708.1	7878.3	6884.4	6004.5	5238.5	4408.8	3848.0	3487.8	3341.9	3205.1
10°	8831.2	8297.8	7034.9	5799.3	4627.6	3506.0	2571.4	2079.0	1705.1	1563.8	1545.6
12.5°	8457.4	7819.1	6246.1	4691.4	3218.8	2088.1	1422.5	1235.5	1130.7	1112.5	1098.8
15°	8147.3	7385.9	5498.4	3633.7	2083.6	1303.9	1107.9	1062.3	1034.9	1025.8	1030.4
17.5°	7937.6	6920.9	4732.5	2644.4	1372.3	1066.9	1021.3	993.9	980.2	975.7	962.0
20°	7522.7	6528.8	3975.6	1851.0	1071.4	984.8	948.3	925.5	911.8	907.3	902.7
22.5°	7285.6	6031.9	3218.8	1290.3	952.9	893.6	866.3	848.0	825.2	811.5	807.0
25°	7048.6	5667.1	2544.0	1003.0	866.3	825.2	784.2	761.4	724.9	706.7	702.1
27.5°	6770.4	5306.9	1960.5	870.8	779.6	738.6	697.6	661.1	615.5	597.3	588.1
30°	6610.9	4955.9	1477.2	779.6	715.8	661.1	610.9	565.3	515.2	483.3	474.2
32.5°	6528.8	4636.7	1107.9	711.2	647.4	588.1	524.3	469.6	424.0	396.7	392.1
35°	6428.5	4326.7	870.8	647.4	583.6	519.8	455.9	401.2	355.6	332.8	323.7
37.5°	6533.4	4144.3	724.9	597.3	533.4	460.5	392.1	337.4	300.9	278.1	273.6
40°	6820.6	3993.9	629.2	551.7	483.3	405.8	341.9	287.2	255.3	237.1	228.0
42.5°	7262.8	3993.9	569.9	506.1	437.7	355.6	291.8	250.8	218.8	200.6	196.0
45°	8065.3	4117.0	519.8	460.5	383.0	305.5	250.8	209.7	177.8	159.6	155.0
47.5°	9191.4	4399.7	478.7	419.4	341.9	269.0	218.8	177.8	145.9	127.7	123.1
50°	10705.1	5042.5	437.7	369.3	305.5	232.5	182.4	141.3	114.0	95.7	91.2
52.5°	12592.6	5954.3	396.7	341.9	259.9	196.0	145.9	114.0	86.6	72.9	68.4
55°	14589.5	7071.4	346.5	305.5	223.4	164.1	118.5	86.6	63.8	54.7	50.2
57.5°	16600.1	7933.1	305.5	264.4	182.4	132.2	95.7	68.4	45.6	36.5	31.9
60°	17667.0	8015.1	264.4	218.8	145.9	104.9	72.9	50.2	31.9	22.8	18.2
62.5°	17831.1	7285.6	228.0	177.8	118.5	82.1	50.2	36.5	18.2	9.1	9.1
65°	16987.7	6072.9	196.0	141.3	91.2	59.3	36.5	22.8	9.1	4.6	0.0
67°	15619.9	5088.1	168.7	118.5	72.9	45.6	27.4	13.7	4.6	0.0	0.0
67.5°	15091.0	4814.5	159.6	109.4	68.4	41.0	22.8	13.7	4.6	0.0	0.0
70°	11712.6	3437.7	118.5	77.5	50.2	31.9	18.2	9.1	0.0	0.0	0.0
72.5°	7176.2	2010.6	91.2	54.7	36.5	22.8	13.7	4.6	0.0	0.0	0.0
75°	3009.1	693.0	77.5	41.0	27.4	13.7	9.1	4.6	0.0	0.0	0.0
77.5°	784.2	259.9	54.7	27.4	18.2	13.7	9.1	4.6	0.0	0.0	0.0
80°	319.1	118.5	36.5	18.2	18.2	13.7	9.1	4.6	0.0	0.0	0.0
82.5°	209.7	54.7	22.8	18.2	13.7	9.1	4.6	0.0	0.0	0.0	0.0
85°	159.6	31.9	13.7	13.7	9.1	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	68.4	18.2	13.7	9.1	9.1	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)