

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: P484032

Luminaire Tested: **IFLD-L-SA7B-740-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484032
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-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

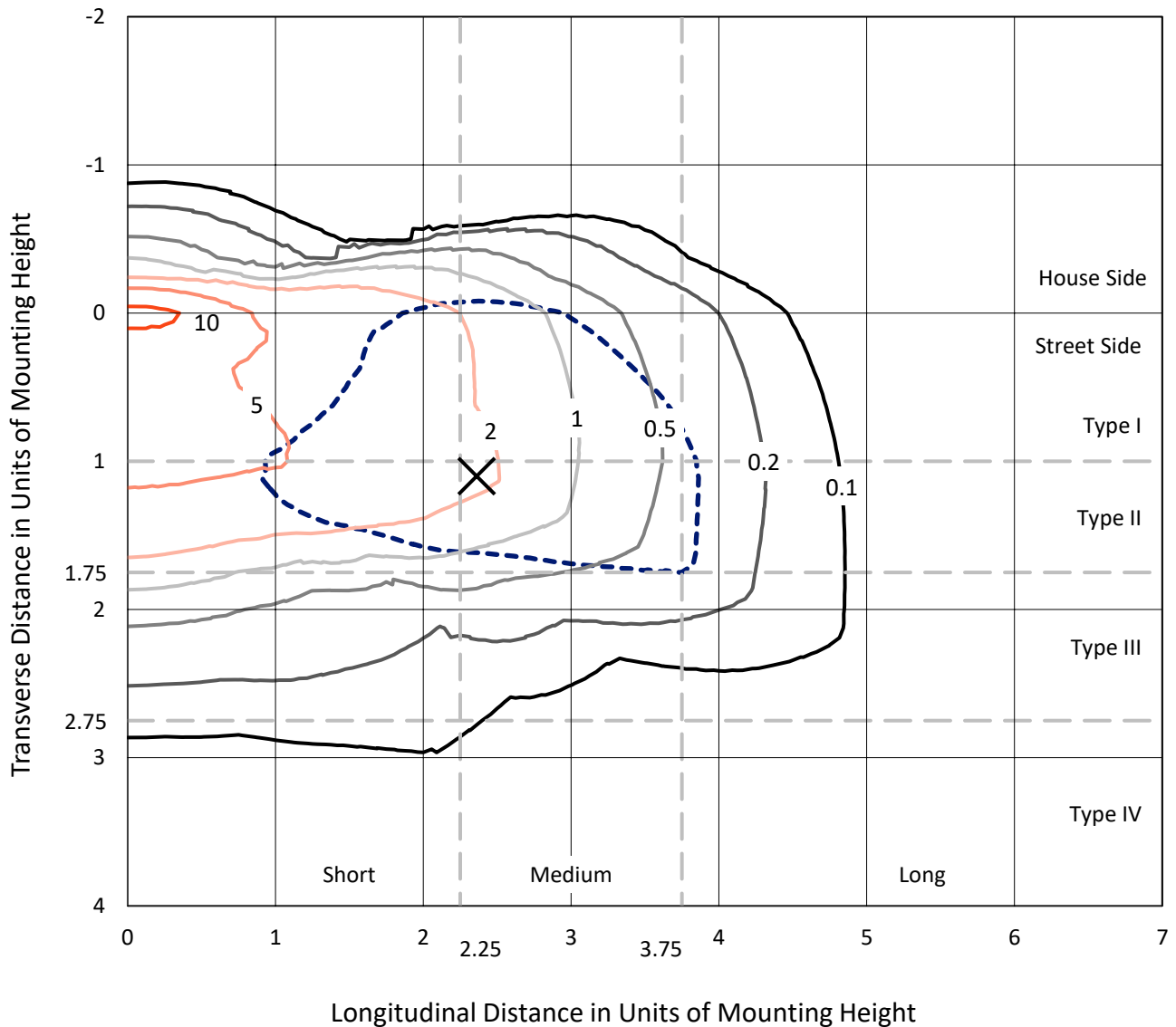
Lumens per Lamp: N/A
Luminaire Lumens: 29310.6 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

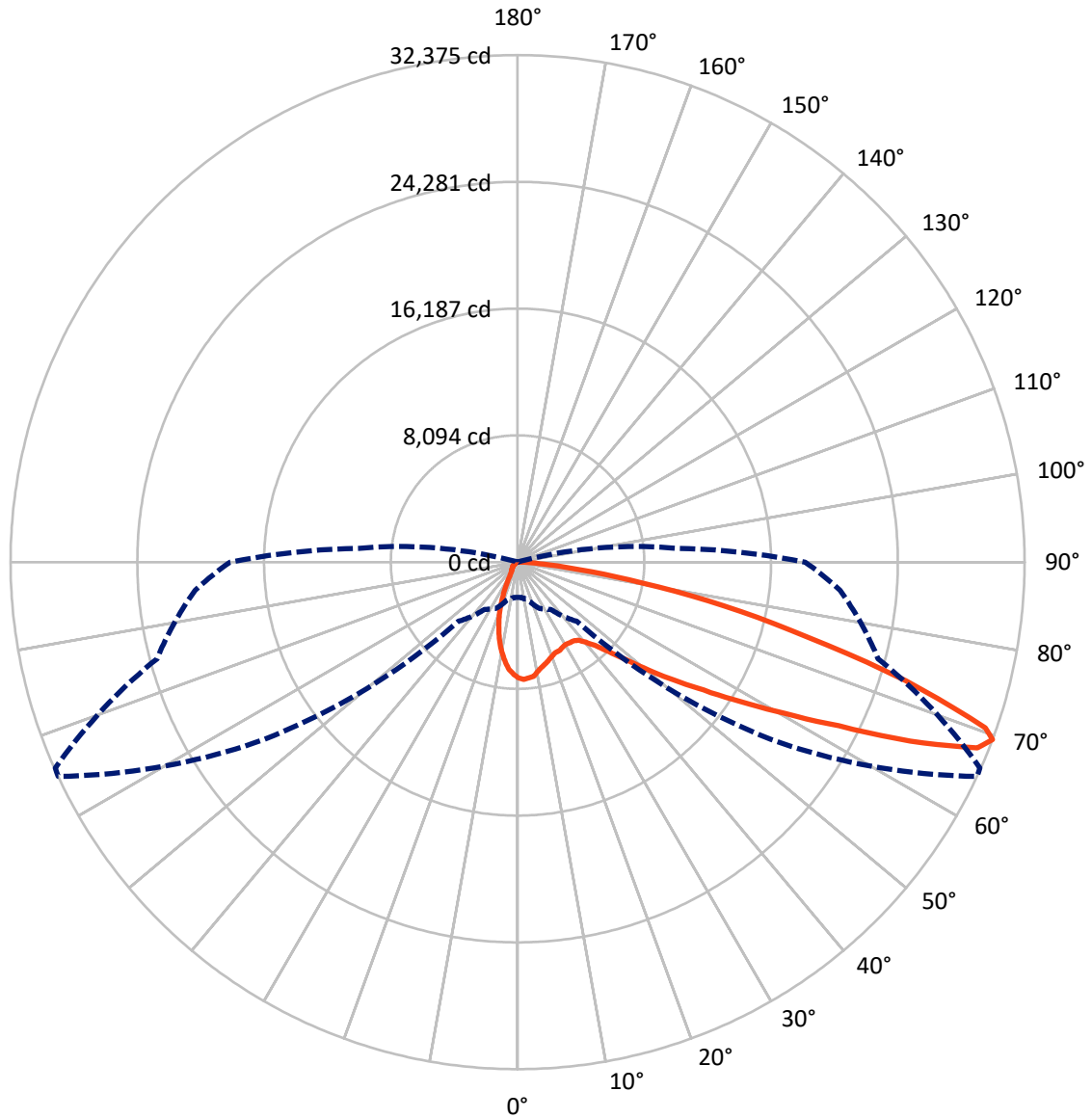
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3555.6	0.0	3555.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	25755.1	0.0	25755.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	29310.6	0.0	29310.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.7	2.1
10°-20°	1323.1	4.5
20°-30°	1842.1	6.3
30°-40°	2610.5	8.9
40°-50°	4114.0	14.0
50°-60°	6675.6	22.8
60°-70°	7455.3	25.4
70°-80°	4198.2	14.3
80°-90°	487.1	1.7
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°	29310.6	100.0
0°-180°	29310.6	100.0

Coefficient of Utilization



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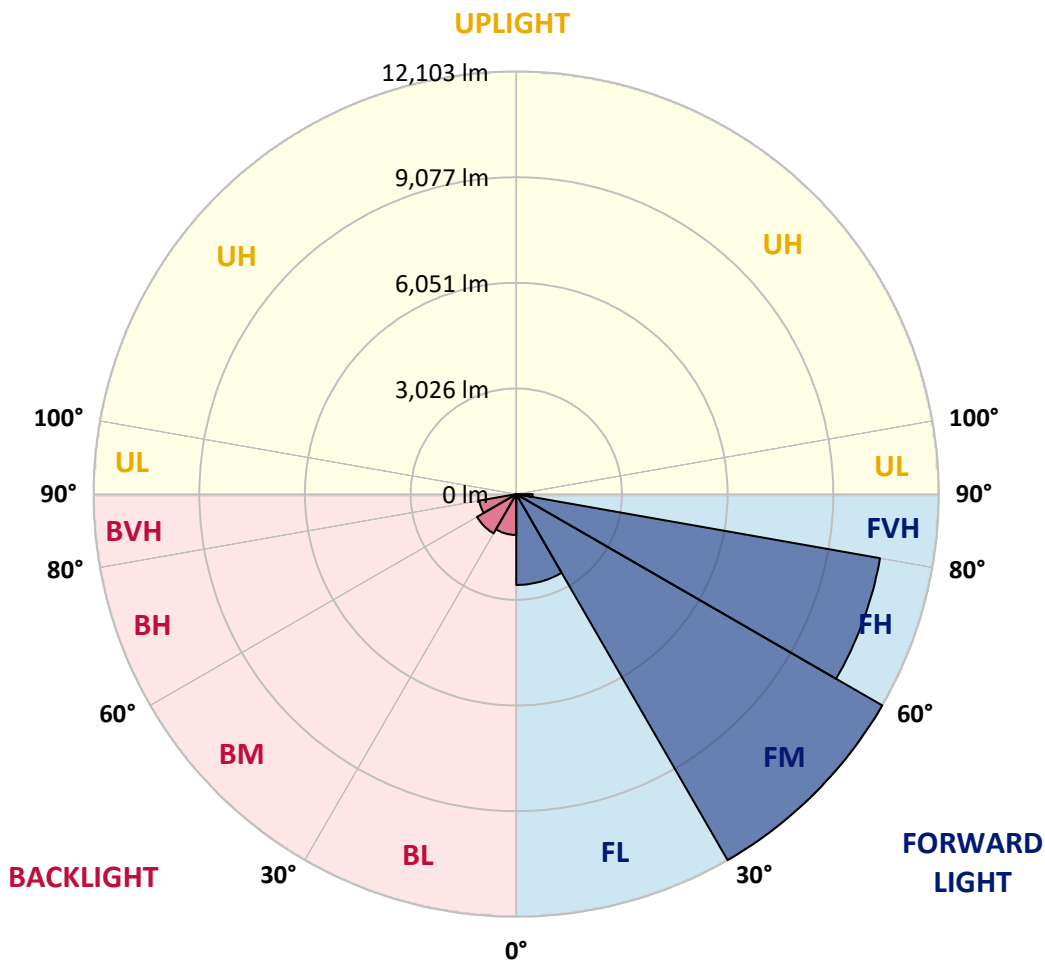
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2601.0	8.9			
FM (30°-60°)	12102.6	41.3			
FH (60°-80°)	10577.7	36.1			G4/12000
FVH (80°-90°)	473.7	1.6			G3/500
BL (0°-30°)	1169.0	4.0	B3/2500		
BM (30°-60°)	1297.4	4.4	B2/2500		
BH (60°-80°)	1075.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	13.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7389.9	7389.9	7389.9	7389.9	7389.9	7389.9	7389.9	7389.9	7389.9	7389.9	7389.9
2.5°	7117.1	7172.4	7188.2	7243.6	7271.3	7389.9	7457.1	7496.6	7476.9	7520.4	7524.3
5°	6611.0	6579.3	6662.4	6721.7	6848.2	7053.8	7263.4	7425.5	7500.6	7571.8	7559.9
7.5°	6069.3	6053.5	6136.5	6270.9	6385.6	6634.7	6970.8	7370.1	7354.3	7528.3	7579.7
10°	5697.6	5713.4	5741.1	5875.5	6045.6	6298.6	6717.7	7089.4	7172.4	7540.1	7642.9
12.5°	5357.6	5385.2	5436.6	5575.0	5772.7	6033.7	6440.9	6875.9	7002.4	7472.9	7678.5
15°	5246.9	5183.6	5286.4	5389.2	5594.8	5828.1	6172.1	6713.8	6769.1	7393.8	7737.8
17.5°	5155.9	5116.4	5163.8	5246.9	5464.3	5654.1	5978.3	6539.8	6642.6	7362.2	7729.9
20°	5183.6	5148.0	5167.8	5231.0	5329.9	5507.8	5808.3	6373.7	6484.4	7215.9	7718.1
22.5°	5262.7	5290.4	5254.8	5270.6	5302.2	5393.2	5717.4	6255.1	6350.0	7188.2	7785.3
25°	5618.5	5571.1	5523.6	5503.9	5318.0	5357.6	5689.7	6247.2	6314.4	7089.4	7729.9
27.5°	5990.2	5950.7	5930.9	5816.2	5563.2	5444.6	5693.7	6136.5	6227.4	7049.8	7662.7
30°	6440.9	6492.3	6413.3	6274.9	5923.0	5630.4	5737.1	6081.1	6207.7	6899.6	7619.2
32.5°	6915.4	6943.1	6982.6	6879.8	6425.1	5911.1	5867.6	6132.5	6140.4	6899.6	7520.4
35°	7453.1	7413.6	7516.4	7524.3	7125.0	6409.3	6116.7	6168.1	6251.2	6868.0	7484.8
37.5°	7915.8	7983.0	8101.6	8291.4	7880.2	7113.1	6504.2	6334.2	6369.8	7014.3	7512.5
40°	8421.9	8489.1	8757.9	8947.7	8714.4	7903.9	7093.3	6721.7	6749.3	7231.7	7654.8
42.5°	8979.4	9109.8	9430.1	9762.2	9699.0	8908.2	7852.5	7291.0	7279.2	7773.4	7947.4
45°	9734.6	9908.5	10256.5	10640.0	10695.4	10058.8	8864.7	8141.1	8180.7	8481.2	8552.3
47.5°	10786.3	10778.4	11118.4	11545.5	11865.7	11252.9	10074.6	9283.8	9279.9	9600.1	9449.9
50°	11802.5	11806.4	11897.4	12391.6	13221.9	12909.6	11573.1	10802.1	10758.6	10916.8	10675.6
52.5°	12273.0	12217.6	12150.4	12747.5	14265.8	14997.2	13471.0	12522.1	12486.5	12391.6	12328.3
55°	11778.7	11798.5	11794.6	12415.3	14815.4	17199.6	15906.6	14416.0	14356.7	14060.2	14147.1
57.5°	10193.2	10130.0	10268.3	11237.1	14186.7	18702.1	19390.0	16804.2	16650.0	15665.4	15467.8
60°	7587.6	7607.4	7722.0	8864.7	12624.9	19018.4	22723.2	19607.5	18943.3	16796.3	16523.5
62.5°	5298.3	5258.7	5302.2	5942.7	9026.8	17753.1	24976.9	23015.8	22375.3	18081.3	17923.1
65°	3791.8	3740.4	3914.4	4305.8	5420.8	13573.8	25297.2	27554.9	26981.6	20133.4	19753.8
67.5°	2728.2	2720.3	2922.0	3633.7	3851.1	7816.9	22924.9	31667.0	31319.0	22569.0	20868.8
69°	2257.7	2261.6	2455.4	3254.1	3677.1	5337.8	19726.1	32374.7	32311.5	23826.3	20659.3
70°	1969.1	1984.9	2210.2	3028.7	3606.0	4388.9	17005.8	31678.8	31615.6	24071.5	19967.3
72.5°	1213.9	1225.7	1522.3	2427.7	3428.1	3582.3	10169.5	25918.0	26135.4	22948.6	17203.5
75°	581.2	585.2	798.7	1755.5	3305.5	3396.4	5448.5	19125.1	19583.8	18528.1	13443.3
77.5°	308.4	308.4	383.5	933.1	2676.8	3194.8	3234.3	13490.8	13870.4	11715.5	7642.9
80°	154.2	158.2	233.3	486.3	1660.6	3131.5	2526.6	8046.2	8251.8	4780.3	2380.3
82.5°	59.3	63.3	110.7	292.6	862.0	2645.2	2218.2	3957.9	3906.5	1119.0	581.2
85°	7.9	7.9	39.5	174.0	367.7	1166.4	1830.7	1652.7	1597.4	245.1	280.7
87.5°	0.0	0.0	7.9	51.4	110.7	340.0	707.8	454.7	506.1	67.2	138.4
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°	7389.9	7389.9	7389.9	7389.9	7389.9	7389.9	7389.9	7389.9	7389.9	7389.9	7389.9
2.5°	7504.5	7421.5	7295.0	7172.4	7041.9	6883.8	6709.8	6646.5	6535.8	6527.9	6591.2
5°	7496.6	7362.2	7140.8	6879.8	6508.2	6227.4	5923.0	5701.6	5531.5	5420.8	5448.5
7.5°	7536.2	7374.1	6990.5	6429.1	5950.7	5393.2	4922.6	4598.4	4301.9	4155.6	4139.8
10°	7472.9	7255.5	6694.0	5907.2	5203.4	4424.4	3736.5	3301.5	2858.7	2696.6	2704.5
12.5°	7508.5	7204.1	6373.7	5369.4	4400.7	3388.5	2566.1	1973.0	1557.8	1423.4	1407.6
15°	7532.2	7093.3	6065.3	4724.9	3511.1	2309.1	1486.7	1119.0	988.5	964.8	960.8
17.5°	7441.3	6958.9	5630.4	4088.4	2601.7	1403.6	988.5	913.4	889.6	873.8	865.9
20°	7437.3	6879.8	5254.8	3436.0	1735.8	956.8	854.0	826.4	790.8	778.9	778.9
22.5°	7370.1	6713.8	4804.0	2720.3	1107.1	822.4	767.1	723.6	684.0	668.2	664.3
25°	7350.3	6520.0	4380.9	2044.2	842.2	735.4	680.1	616.8	569.4	545.6	533.8
27.5°	7295.0	6354.0	3953.9	1439.2	735.4	656.4	585.2	518.0	462.6	427.0	423.1
30°	7097.3	6180.0	3479.5	996.4	668.2	581.2	502.1	423.1	367.7	344.0	336.1
32.5°	7014.3	6017.9	2961.5	767.1	608.9	514.0	423.1	351.9	308.4	284.7	280.7
35°	6915.4	5780.6	2459.3	668.2	553.5	446.8	355.9	296.5	261.0	241.2	241.2
37.5°	6927.3	5590.8	1988.8	605.0	494.2	383.5	304.5	253.1	221.4	201.7	201.7
40°	6891.7	5440.6	1546.0	549.6	438.9	328.2	257.0	213.5	185.8	166.1	162.1
42.5°	7053.8	5401.1	1166.4	502.1	383.5	280.7	221.4	181.9	154.2	130.5	130.5
45°	7326.6	5464.3	909.4	458.7	328.2	241.2	189.8	150.2	122.6	106.8	102.8
47.5°	8054.1	5713.4	711.7	423.1	280.7	209.6	158.2	122.6	98.8	83.0	79.1
50°	9109.8	6270.9	605.0	371.7	237.2	177.9	130.5	94.9	79.1	63.3	59.3
52.5°	10612.3	7208.0	549.6	328.2	197.7	146.3	102.8	75.1	59.3	47.4	43.5
55°	12249.3	8378.4	498.2	276.8	166.1	118.6	83.0	59.3	43.5	31.6	27.7
57.5°	13526.4	9390.6	454.7	229.3	134.4	94.9	63.3	43.5	31.6	19.8	15.8
60°	14922.1	10102.3	399.3	181.9	110.7	71.2	47.4	31.6	23.7	11.9	11.9
62.5°	16361.3	10936.6	328.2	142.3	87.0	55.4	35.6	23.7	15.8	4.0	4.0
65°	18362.0	11589.0	253.1	110.7	67.2	39.5	27.7	19.8	7.9	0.0	0.0
67.5°	18927.4	11268.7	185.8	87.0	47.4	27.7	19.8	11.9	4.0	0.0	0.0
69°	18362.0	10149.7	162.1	75.1	39.5	23.7	15.8	7.9	4.0	0.0	0.0
70°	17330.1	9279.9	142.3	63.3	35.6	23.7	11.9	7.9	4.0	0.0	0.0
72.5°	14495.1	7117.1	110.7	47.4	27.7	19.8	11.9	7.9	0.0	0.0	0.0
75°	10632.1	4396.8	83.0	35.6	23.7	15.8	11.9	7.9	0.0	0.0	0.0
77.5°	5697.6	1605.3	59.3	23.7	15.8	11.9	11.9	7.9	0.0	0.0	0.0
80°	1561.8	474.5	43.5	15.8	11.9	7.9	7.9	4.0	0.0	0.0	0.0
82.5°	427.0	122.6	27.7	15.8	11.9	7.9	4.0	0.0	0.0	0.0	0.0
85°	229.3	47.4	15.8	11.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	118.6	15.8	11.9	7.9	7.9	4.0	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)