

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: P484570

Luminaire Tested: **IFLD-S-SA6D-830-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484570
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

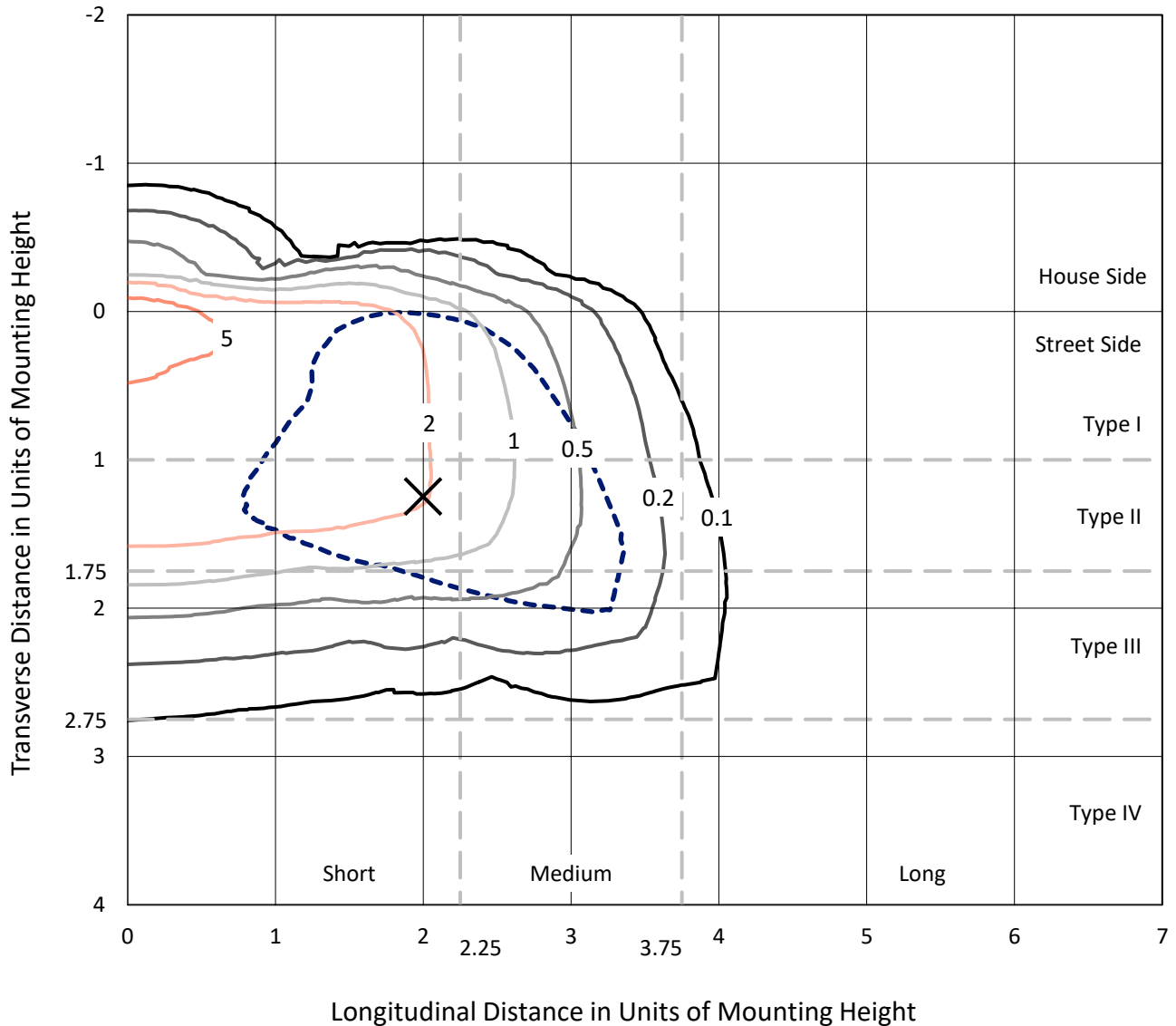
Lumens per Lamp: N/A
Luminaire Lumens: 30383.1 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

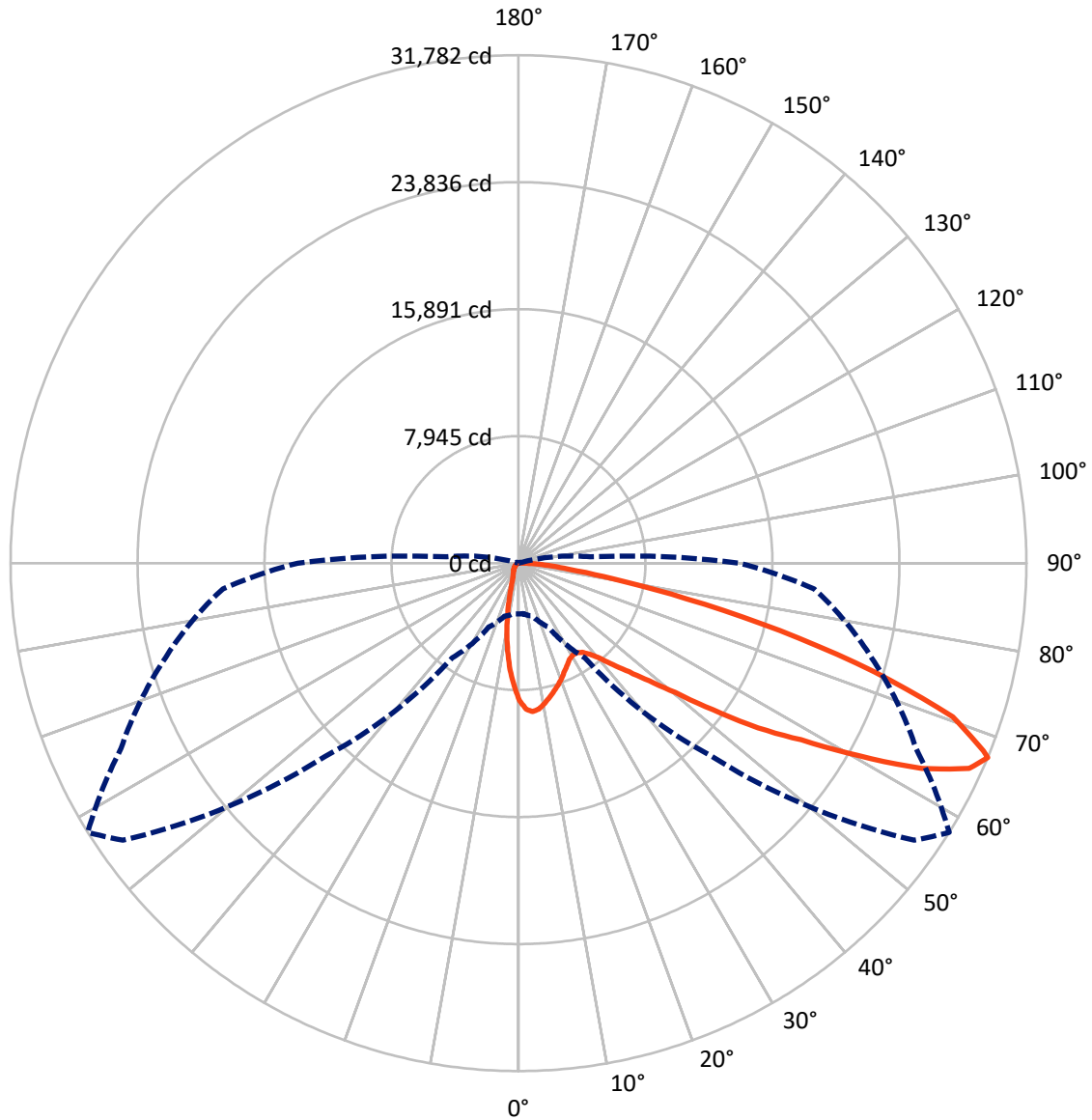
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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	2511.4	0.0	2511.4
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	27871.7	0.0	27871.7
	% Fixture	91.7	0.0	91.7
Total	Lumens	30383.1	0.0	30383.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.0	2.2
10°-20°	1416.7	4.7
20°-30°	1879.6	6.2
30°-40°	2604.5	8.6
40°-50°	4249.9	14.0
50°-60°	7469.9	24.6
60°-70°	8273.5	27.2
70°-80°	3428.5	11.3
80°-90°	377.4	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°	30383.1	100.0
0°-180°	30383.1	100.0

Coefficient of Utilization



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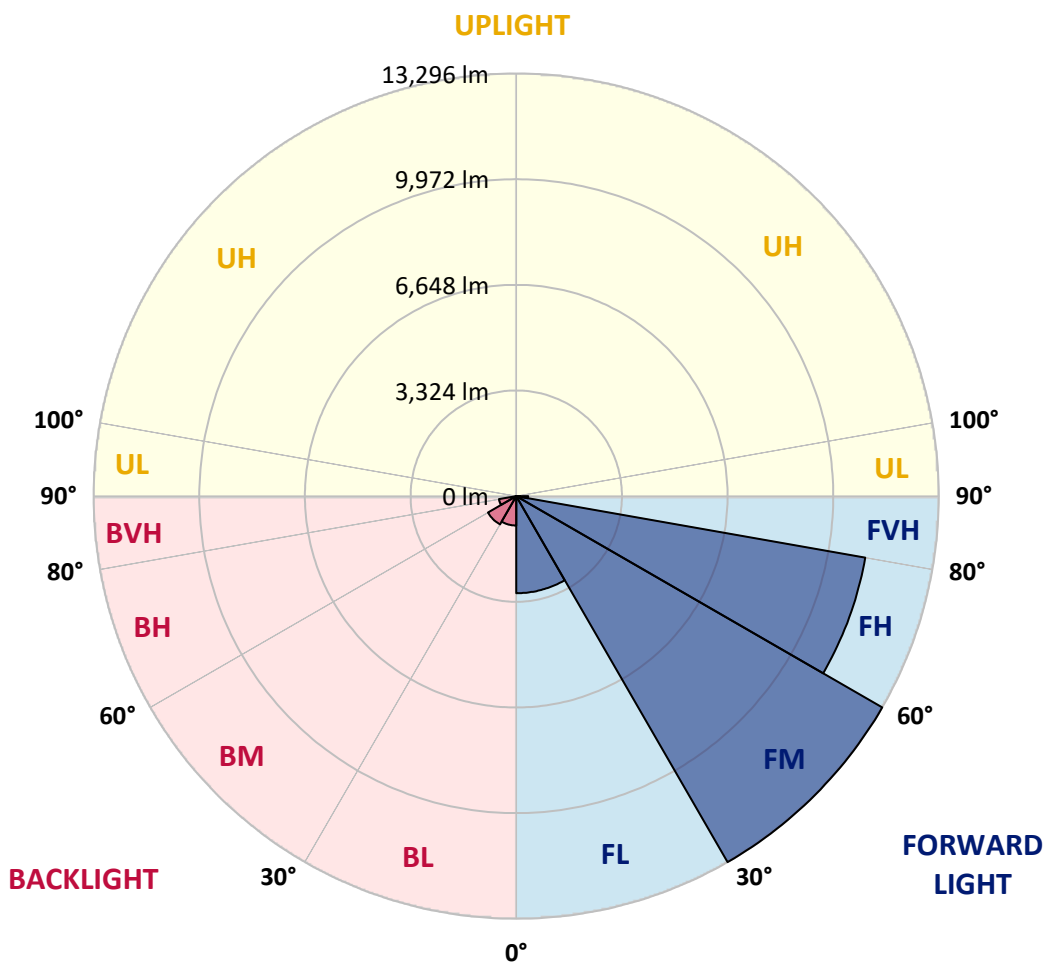
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3054.4	10.1			
FM (30°-60°)	13296.3	43.8			
FH (60°-80°)	11149.9	36.7			G4/12000
FVH (80°-90°)	371.2	1.2			G3/500
BL (0°-30°)	924.9	3.0	B2/1000		
BM (30°-60°)	1028.1	3.4	B2/2500		
BH (60°-80°)	552.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	6.2	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8607.9	8607.9	8607.9	8607.9	8607.9	8607.9	8607.9	8607.9	8607.9	8607.9	8607.9
2.5°	9366.3	9398.5	9426.8	9374.3	9418.7	9354.2	9188.8	9152.5	9124.3	8878.2	8737.0
5°	9362.2	9325.9	9354.2	9378.4	9317.9	9366.3	9325.9	9330.0	9221.1	8999.2	8603.9
7.5°	8737.0	8720.9	8737.0	8854.0	8987.1	9092.0	9152.5	9213.0	9140.4	8809.6	8426.4
10°	7894.0	7974.6	8019.0	8228.8	8434.5	8628.1	8817.7	8930.6	8910.5	8777.4	8232.8
12.5°	7305.1	7280.9	7442.2	7579.3	7785.1	8176.3	8507.1	8612.0	8733.0	8547.4	7978.7
15°	6760.5	6696.0	6792.8	7030.8	7381.7	7692.3	8156.2	8313.5	8466.8	8515.2	7841.5
17.5°	6240.2	6272.4	6373.3	6587.1	6917.8	7353.5	7789.1	8015.0	8382.1	8317.5	7635.8
20°	5990.1	6058.6	6094.9	6203.8	6433.8	6869.4	7518.8	7700.4	8091.6	8313.5	7434.1
22.5°	6002.2	6002.2	5917.5	5982.0	6191.7	6530.6	7151.8	7353.5	7974.6	8103.7	7252.6
25°	6131.2	6050.6	6054.6	5978.0	6066.7	6252.3	6821.0	7067.1	7736.7	8123.9	7155.8
27.5°	6228.1	6211.9	6187.7	6167.5	6054.6	6082.8	6603.2	6804.9	7643.9	8099.7	7006.6
30°	6579.0	6506.4	6482.2	6437.8	6288.6	6151.4	6429.7	6683.9	7571.3	8156.2	6921.9
32.5°	6873.4	6885.5	6905.7	6776.6	6647.6	6308.7	6478.1	6679.8	7518.8	8285.2	7006.6
35°	7244.5	7297.0	7305.1	7264.7	7127.6	6792.8	6679.8	6853.3	7607.6	8515.2	7014.6
37.5°	7809.3	7752.8	7906.1	7922.2	7825.4	7381.7	7147.7	7216.3	7869.8	8882.2	7321.2
40°	8176.3	8244.9	8531.3	8708.8	8543.4	8140.0	7825.4	7813.3	8248.9	9459.1	7700.4
42.5°	8583.7	8737.0	9051.7	9434.9	9414.7	9039.5	8720.9	8668.4	8922.6	10294.0	8301.4
45°	9140.4	9277.5	9717.2	10294.0	10608.7	10290.0	9810.0	9705.1	9741.4	11431.5	9325.9
47.5°	10064.1	10027.8	10661.1	11229.9	11746.2	11500.1	11294.4	10987.8	10959.6	12770.7	10741.8
50°	11108.8	11100.8	11665.5	12310.9	12907.9	13387.9	13045.0	12710.2	12718.3	14589.9	12407.7
52.5°	12101.1	12258.5	12867.5	13508.9	14533.5	15049.8	15380.5	15247.4	14606.1	16215.5	14190.6
55°	12625.5	12762.7	13367.7	14473.0	16090.5	17417.6	18313.1	18200.1	16961.8	18046.8	15949.3
57.5°	12129.4	12222.1	13041.0	14489.1	17179.6	20140.3	20999.5	20858.3	19398.1	19446.5	18075.1
60°	10052.0	10197.2	11415.4	13113.6	16756.0	22237.9	24698.4	24484.6	21616.7	21217.3	19442.5
62.5°	6962.2	7059.0	8059.4	10173.0	14747.3	22968.0	28191.6	28308.6	23956.2	22596.9	19849.9
65°	4509.7	4501.6	5074.4	6506.4	10451.3	20757.5	30256.9	30982.9	26215.1	22806.6	19724.9
67°	3186.6	3174.5	3444.8	4412.9	7236.5	17102.9	30220.6	31781.6	27441.3	22867.1	18567.2
67.5°	2940.6	2928.5	3186.6	4057.9	6530.6	15904.9	29768.8	31370.2	27873.0	22782.4	18058.9
70°	2283.1	2250.8	2347.6	2795.4	3803.8	10286.0	25476.9	28816.8	26977.5	20668.7	14420.5
72.5°	1649.8	1686.1	1839.4	2295.2	2984.9	5534.3	19418.3	23302.8	22532.3	15578.2	9164.6
75°	1149.6	1181.9	1427.9	1871.6	2738.9	3356.0	13129.7	16901.3	15695.2	8599.9	3904.6
77.5°	601.0	641.4	911.6	1496.5	2488.8	2597.7	7845.6	10717.6	8317.5	3061.6	1077.0
80°	278.3	298.5	455.8	1060.9	2081.4	2283.1	4574.2	5961.8	3327.8	685.7	371.1
82.5°	121.0	133.1	209.8	609.1	1476.3	1996.7	2831.7	3126.1	1206.1	221.9	229.9
85°	24.2	28.2	80.7	322.7	714.0	1210.1	1988.6	1855.5	605.1	108.9	181.5
87.5°	0.0	0.0	20.2	92.8	193.6	359.0	843.0	843.0	185.6	56.5	68.6
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°	8607.9	8607.9	8607.9	8607.9	8607.9	8607.9	8607.9	8607.9	8607.9	8607.9	8607.9
2.5°	8612.0	8466.8	8148.1	7853.6	7643.9	7405.9	7091.3	6950.1	6897.6	6825.0	6716.1
5°	8386.1	8208.6	7664.1	7115.5	6514.4	6058.6	5574.6	5292.2	5078.4	4945.3	4901.0
7.5°	8067.4	7704.4	6970.3	6090.9	5312.4	4634.7	3900.6	3404.5	3085.8	2956.7	2835.7
10°	7813.3	7341.4	6224.0	5130.9	4094.2	3101.9	2275.0	1839.4	1508.6	1383.6	1367.4
12.5°	7482.5	6917.8	5526.2	4150.7	2847.8	1847.4	1258.5	1093.1	1000.4	984.2	972.1
15°	7208.2	6534.6	4864.7	3214.9	1843.4	1153.6	980.2	939.9	915.7	907.6	911.6
17.5°	7022.7	6123.2	4187.0	2339.6	1214.1	943.9	903.6	879.3	867.2	863.2	851.1
20°	6655.6	5776.3	3517.4	1637.7	947.9	871.3	839.0	818.8	806.7	802.7	798.7
22.5°	6445.9	5336.6	2847.8	1141.5	843.0	790.6	766.4	750.3	730.1	718.0	714.0
25°	6236.1	5013.9	2250.8	887.4	766.4	730.1	693.8	673.6	641.4	625.2	621.2
27.5°	5990.1	4695.2	1734.5	770.4	689.8	653.5	617.2	584.9	544.6	528.4	520.3
30°	5848.9	4384.6	1306.9	689.8	633.3	584.9	540.5	500.2	455.8	427.6	419.5
32.5°	5776.3	4102.3	980.2	629.3	572.8	520.3	463.9	415.5	375.1	350.9	346.9
35°	5687.5	3828.0	770.4	572.8	516.3	459.8	403.4	355.0	314.6	294.5	286.4
37.5°	5780.3	3666.6	641.4	528.4	471.9	407.4	346.9	298.5	266.2	246.1	242.0
40°	6034.4	3533.5	556.7	488.1	427.6	359.0	302.5	254.1	225.9	209.8	201.7
42.5°	6425.7	3533.5	504.2	447.7	387.2	314.6	258.2	221.9	193.6	177.5	173.4
45°	7135.6	3642.4	459.8	407.4	338.8	270.3	221.9	185.6	157.3	141.2	137.1
47.5°	8132.0	3892.5	423.5	371.1	302.5	238.0	193.6	157.3	129.1	112.9	108.9
50°	9471.2	4461.3	387.2	326.7	270.3	205.7	161.3	125.0	100.8	84.7	80.7
52.5°	11141.1	5268.0	350.9	302.5	229.9	173.4	129.1	100.8	76.6	64.5	60.5
55°	12907.9	6256.3	306.6	270.3	197.7	145.2	104.9	76.6	56.5	48.4	44.4
57.5°	14686.7	7018.7	270.3	234.0	161.3	117.0	84.7	60.5	40.3	32.3	28.2
60°	15630.6	7091.3	234.0	193.6	129.1	92.8	64.5	44.4	28.2	20.2	16.1
62.5°	15775.8	6445.9	201.7	157.3	104.9	72.6	44.4	32.3	16.1	8.1	8.1
65°	15029.6	5372.9	173.4	125.0	80.7	52.4	32.3	20.2	8.1	4.0	0.0
67°	13819.5	4501.6	149.2	104.9	64.5	40.3	24.2	12.1	4.0	0.0	0.0
67.5°	13351.6	4259.6	141.2	96.8	60.5	36.3	20.2	12.1	4.0	0.0	0.0
70°	10362.6	3041.4	104.9	68.6	44.4	28.2	16.1	8.1	0.0	0.0	0.0
72.5°	6349.1	1778.9	80.7	48.4	32.3	20.2	12.1	4.0	0.0	0.0	0.0
75°	2662.3	613.1	68.6	36.3	24.2	12.1	8.1	4.0	0.0	0.0	0.0
77.5°	693.8	229.9	48.4	24.2	16.1	12.1	8.1	4.0	0.0	0.0	0.0
80°	282.4	104.9	32.3	16.1	16.1	12.1	8.1	4.0	0.0	0.0	0.0
82.5°	185.6	48.4	20.2	16.1	12.1	8.1	4.0	0.0	0.0	0.0	0.0
85°	141.2	28.2	12.1	12.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	60.5	16.1	12.1	8.1	8.1	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)