

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: P484141

Luminaire Tested: **IFLD-S-SA6D-827-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484141
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

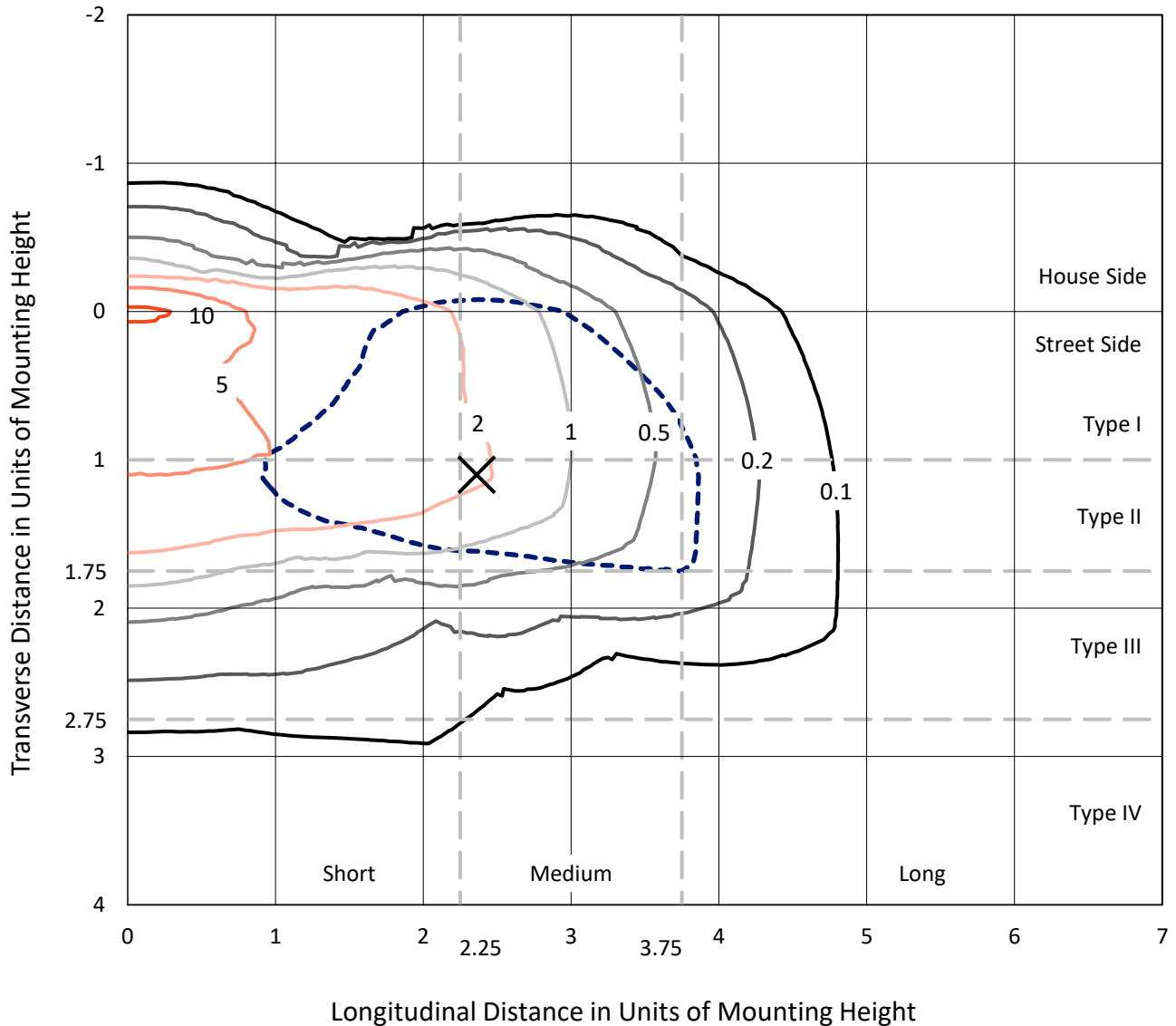
Lumens per Lamp: N/A
Luminaire Lumens: 27662.9 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

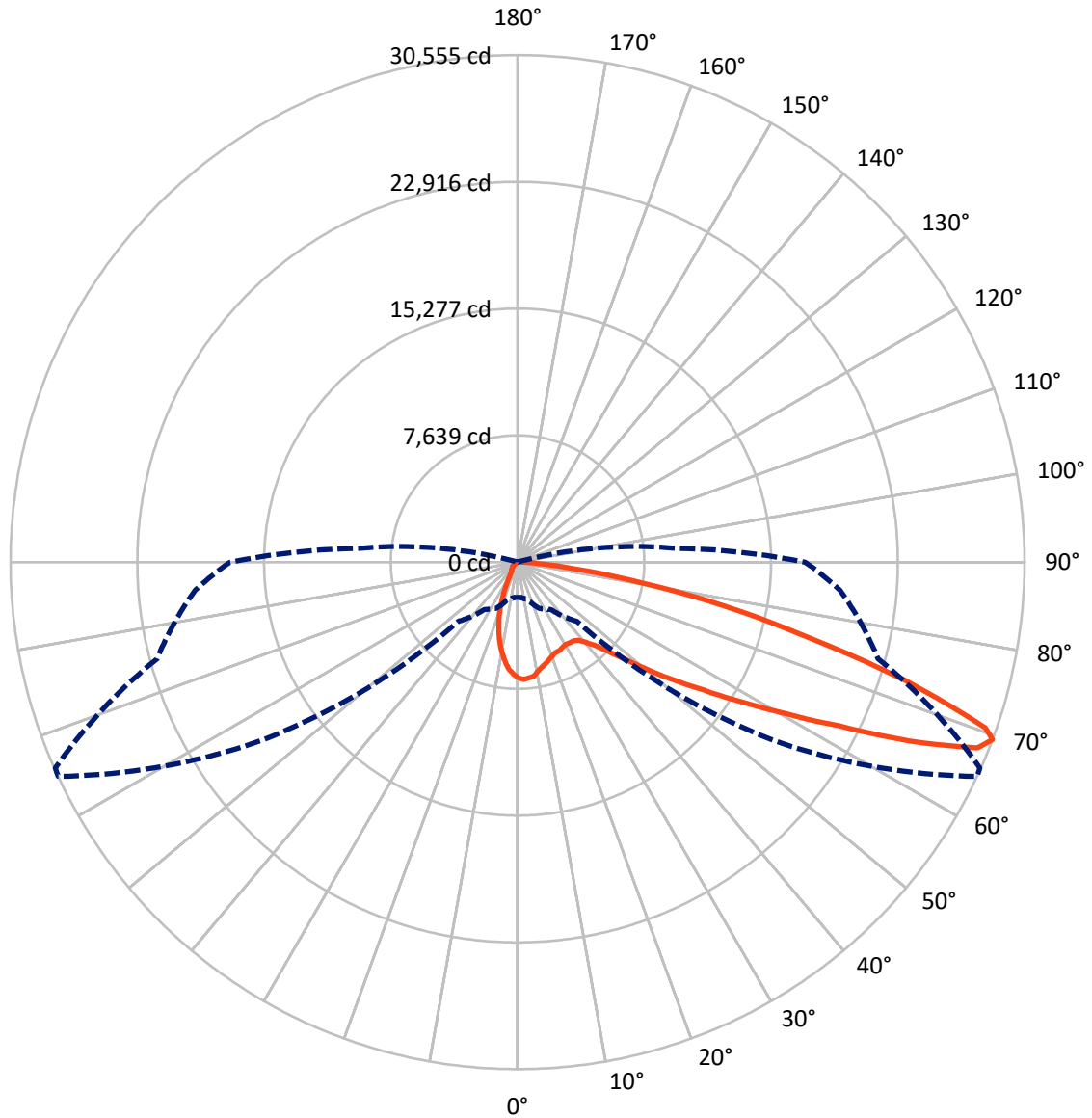
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	3355.7	0.0	3355.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	24307.2	0.0	24307.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	27662.9	0.0	27662.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.7	2.1
10°-20°	1248.8	4.5
20°-30°	1738.6	6.3
30°-40°	2463.7	8.9
40°-50°	3882.7	14.0
50°-60°	6300.3	22.8
60°-70°	7036.2	25.4
70°-80°	3962.2	14.3
80°-90°	459.8	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°	27662.9	100.0
0°-180°	27662.9	100.0



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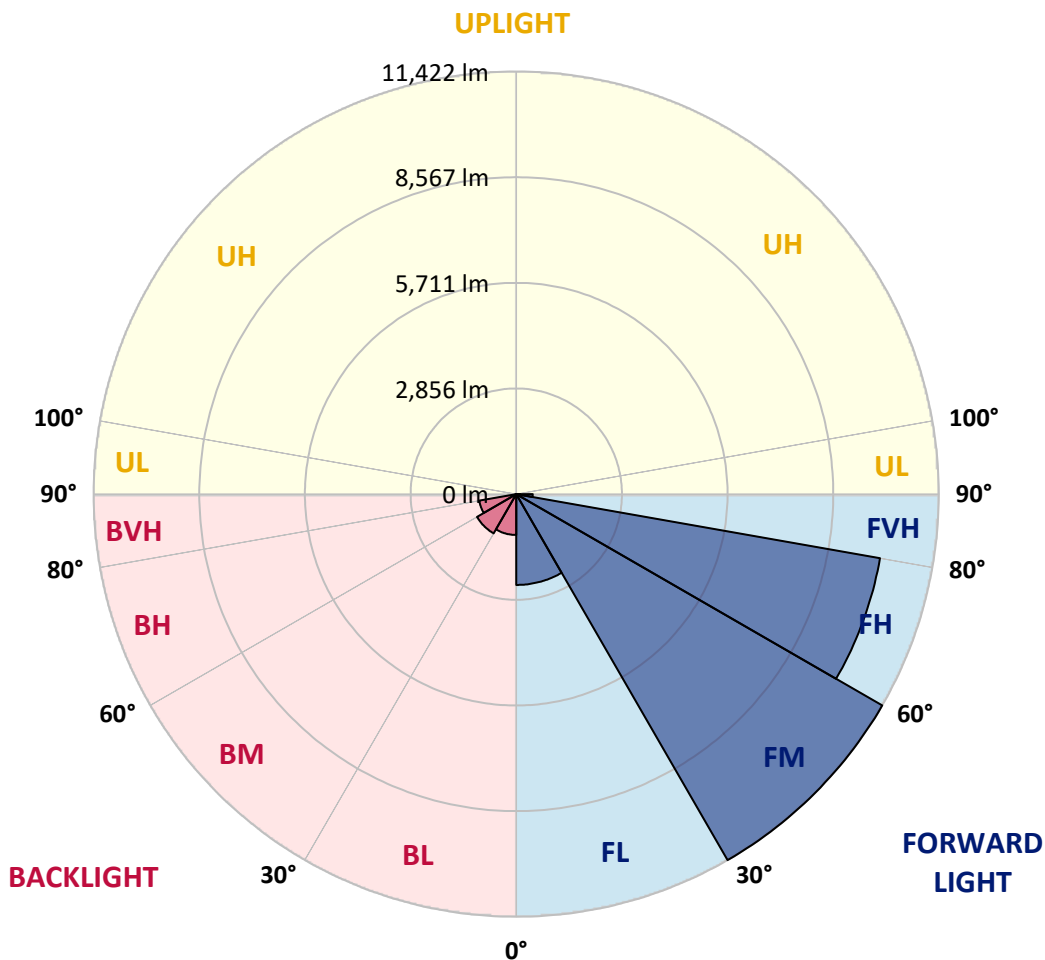
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2454.8	8.9			
FM (30°-60°)	11422.3	41.3			
FH (60°-80°)	9983.1	36.1			G4/12000
FVH (80°-90°)	447.1	1.6			G3/500
BL (0°-30°)	1103.2	4.0	B3/2500		
BM (30°-60°)	1224.5	4.4	B2/2500		
BH (60°-80°)	1015.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	12.7	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°	6974.5	6974.5	6974.5	6974.5	6974.5	6974.5	6974.5	6974.5	6974.5	6974.5	6974.5
2.5°	6717.0	6769.2	6784.1	6836.4	6862.5	6974.5	7037.9	7075.2	7056.6	7097.6	7101.3
5°	6239.3	6209.5	6287.8	6343.8	6463.2	6657.3	6855.0	7008.0	7078.9	7146.1	7134.9
7.5°	5728.1	5713.2	5791.5	5918.4	6026.6	6261.7	6578.9	6955.8	6940.9	7105.1	7153.6
10°	5377.3	5392.2	5418.4	5545.2	5705.7	5944.5	6340.1	6690.9	6769.2	7116.3	7213.3
12.5°	5056.4	5082.5	5131.0	5261.6	5448.2	5694.5	6078.9	6489.3	6608.8	7052.8	7246.9
15°	4951.9	4892.2	4989.2	5086.2	5280.3	5500.5	5825.1	6336.3	6388.6	6978.2	7302.8
17.5°	4866.1	4828.8	4873.5	4951.9	5157.1	5336.3	5642.3	6172.2	6269.2	6948.3	7295.4
20°	4892.2	4858.6	4877.3	4937.0	5030.3	5198.2	5481.8	6015.4	6119.9	6810.3	7284.2
22.5°	4966.8	4993.0	4959.4	4974.3	5004.1	5090.0	5396.0	5903.5	5993.0	6784.1	7347.6
25°	5302.7	5257.9	5213.1	5194.5	5019.1	5056.4	5369.8	5896.0	5959.4	6690.9	7295.4
27.5°	5653.5	5616.1	5597.5	5489.3	5250.4	5138.5	5373.6	5791.5	5877.4	6653.5	7231.9
30°	6078.9	6127.4	6052.7	5922.1	5590.0	5313.9	5414.6	5739.3	5858.7	6511.7	7190.9
32.5°	6526.7	6552.8	6590.1	6493.1	6063.9	5578.8	5537.8	5787.8	5795.3	6511.7	7097.6
35°	7034.2	6996.8	7093.9	7101.3	6724.4	6049.0	5772.9	5821.4	5899.7	6481.9	7064.0
37.5°	7470.8	7534.2	7646.2	7825.3	7437.2	6713.2	6138.6	5978.1	6011.7	6620.0	7090.1
40°	7948.4	8011.9	8265.6	8444.7	8224.6	7459.6	6694.6	6343.8	6369.9	6825.2	7224.5
42.5°	8474.6	8597.7	8900.0	9213.4	9153.7	8407.4	7411.1	6881.2	6870.0	7336.4	7500.6
45°	9187.3	9351.5	9679.9	10041.9	10094.1	9493.3	8366.4	7683.5	7720.8	8004.4	8071.6
47.5°	10179.9	10172.5	10493.4	10896.4	11198.7	10620.3	9508.2	8761.9	8758.2	9060.5	8918.6
50°	11139.0	11142.7	11228.5	11695.0	12478.6	12183.8	10922.5	10194.9	10153.8	10303.1	10075.5
52.5°	11583.0	11530.8	11467.4	12030.8	13463.8	14154.2	12713.7	11818.1	11784.6	11695.0	11635.3
55°	11116.6	11135.2	11131.5	11717.4	13982.5	16232.7	15012.4	13605.6	13549.6	13269.8	13351.9
57.5°	9620.2	9560.5	9691.1	10605.4	13389.2	17650.7	18300.0	15859.5	15714.0	14784.8	14598.2
60°	7161.0	7179.7	7287.9	8366.4	11915.2	17949.2	21445.8	18505.3	17878.3	15852.1	15594.6
62.5°	5000.4	4963.1	5004.1	5608.7	8519.4	16755.1	23572.8	21721.9	21117.4	17064.8	16915.6
65°	3578.7	3530.1	3694.3	4063.8	5116.1	12810.8	23875.1	26005.9	25464.8	19001.6	18643.3
67.5°	2574.8	2567.4	2757.7	3429.4	3634.6	7377.5	21636.1	29886.8	29558.4	21300.3	19695.7
69°	2130.8	2134.5	2317.4	3071.1	3470.4	5037.7	18617.2	30554.8	30495.1	22486.9	19497.9
70°	1858.4	1873.3	2086.0	2858.4	3403.3	4142.1	16049.8	29898.0	29838.3	22718.3	18844.8
72.5°	1145.6	1156.8	1436.7	2291.2	3235.3	3380.9	9597.8	24461.0	24666.2	21658.5	16236.4
75°	548.6	552.3	753.8	1656.9	3119.7	3205.5	5142.2	18050.0	18482.9	17486.5	12687.6
77.5°	291.1	291.1	362.0	880.7	2526.3	3015.2	3052.5	12732.4	13090.6	11056.9	7213.3
80°	145.5	149.3	220.2	459.0	1567.3	2955.5	2384.5	7593.9	7788.0	4511.6	2246.5
82.5°	56.0	59.7	104.5	276.1	813.5	2496.5	2093.5	3735.4	3686.9	1056.1	548.6
85°	7.5	7.5	37.3	164.2	347.0	1100.8	1727.8	1559.8	1507.6	231.4	264.9
87.5°	0.0	0.0	7.5	48.5	104.5	320.9	668.0	429.1	477.7	63.4	130.6
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°	6974.5	6974.5	6974.5	6974.5	6974.5	6974.5	6974.5	6974.5	6974.5	6974.5	6974.5
2.5°	7082.7	7004.3	6884.9	6769.2	6646.1	6496.8	6332.6	6272.9	6168.4	6161.0	6220.7
5°	7075.2	6948.3	6739.4	6493.1	6142.3	5877.4	5590.0	5381.0	5220.6	5116.1	5142.2
7.5°	7112.5	6959.5	6597.6	6067.7	5616.1	5090.0	4645.9	4339.9	4060.0	3922.0	3907.0
10°	7052.8	6847.6	6317.7	5575.1	4910.9	4175.7	3526.4	3115.9	2698.0	2545.0	2552.4
12.5°	7086.4	6799.1	6015.4	5067.6	4153.3	3198.0	2421.8	1862.1	1470.3	1343.4	1328.5
15°	7108.8	6694.6	5724.4	4459.3	3313.7	2179.3	1403.1	1056.1	932.9	910.5	906.8
17.5°	7023.0	6567.7	5313.9	3858.5	2455.4	1324.7	932.9	862.0	839.6	824.7	817.2
20°	7019.2	6493.1	4959.4	3242.8	1638.2	903.1	806.0	779.9	746.3	735.1	735.1
22.5°	6955.8	6336.3	4534.0	2567.4	1044.9	776.2	723.9	682.9	645.6	630.6	626.9
25°	6937.1	6153.5	4134.7	1929.3	794.8	694.1	641.8	582.1	537.4	515.0	503.8
27.5°	6884.9	5996.8	3731.7	1358.3	694.1	619.5	552.3	488.8	436.6	403.0	399.3
30°	6698.3	5832.6	3283.9	940.4	630.6	548.6	473.9	399.3	347.0	324.7	317.2
32.5°	6620.0	5679.6	2795.0	723.9	574.7	485.1	399.3	332.1	291.1	268.7	264.9
35°	6526.7	5455.7	2321.1	630.6	522.4	421.7	335.8	279.9	246.3	227.6	227.6
37.5°	6537.9	5276.6	1877.0	570.9	466.5	362.0	287.3	238.8	209.0	190.3	190.3
40°	6504.3	5134.8	1459.1	518.7	414.2	309.7	242.6	201.5	175.4	156.7	153.0
42.5°	6657.3	5097.4	1100.8	473.9	362.0	264.9	209.0	171.7	145.5	123.1	123.1
45°	6914.8	5157.1	858.3	432.9	309.7	227.6	179.1	141.8	115.7	100.8	97.0
47.5°	7601.4	5392.2	671.7	399.3	264.9	197.8	149.3	115.7	93.3	78.4	74.6
50°	8597.7	5918.4	570.9	350.8	223.9	167.9	123.1	89.6	74.6	59.7	56.0
52.5°	10015.8	6802.8	518.7	309.7	186.6	138.1	97.0	70.9	56.0	44.8	41.0
55°	11560.7	7907.4	470.2	261.2	156.7	111.9	78.4	56.0	41.0	29.9	26.1
57.5°	12766.0	8862.7	429.1	216.4	126.9	89.6	59.7	41.0	29.9	18.7	14.9
60°	14083.3	9534.4	376.9	171.7	104.5	67.2	44.8	29.9	22.4	11.2	11.2
62.5°	15441.6	10321.7	309.7	134.3	82.1	52.2	33.6	22.4	14.9	3.7	3.7
65°	17329.8	10937.5	238.8	104.5	63.4	37.3	26.1	18.7	7.5	0.0	0.0
67.5°	17863.4	10635.2	175.4	82.1	44.8	26.1	18.7	11.2	3.7	0.0	0.0
69°	17329.8	9579.2	153.0	70.9	37.3	22.4	14.9	7.5	3.7	0.0	0.0
70°	16355.8	8758.2	134.3	59.7	33.6	22.4	11.2	7.5	3.7	0.0	0.0
72.5°	13680.2	6717.0	104.5	44.8	26.1	18.7	11.2	7.5	0.0	0.0	0.0
75°	10034.4	4149.6	78.4	33.6	22.4	14.9	11.2	7.5	0.0	0.0	0.0
77.5°	5377.3	1515.1	56.0	22.4	14.9	11.2	11.2	7.5	0.0	0.0	0.0
80°	1474.0	447.8	41.0	14.9	11.2	7.5	7.5	3.7	0.0	0.0	0.0
82.5°	403.0	115.7	26.1	14.9	11.2	7.5	3.7	0.0	0.0	0.0	0.0
85°	216.4	44.8	14.9	11.2	7.5	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	111.9	14.9	11.2	7.5	7.5	3.7	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)