

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: P484117

Luminaire Tested: **IFLD-L-SA8D-760-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484117
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-760-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

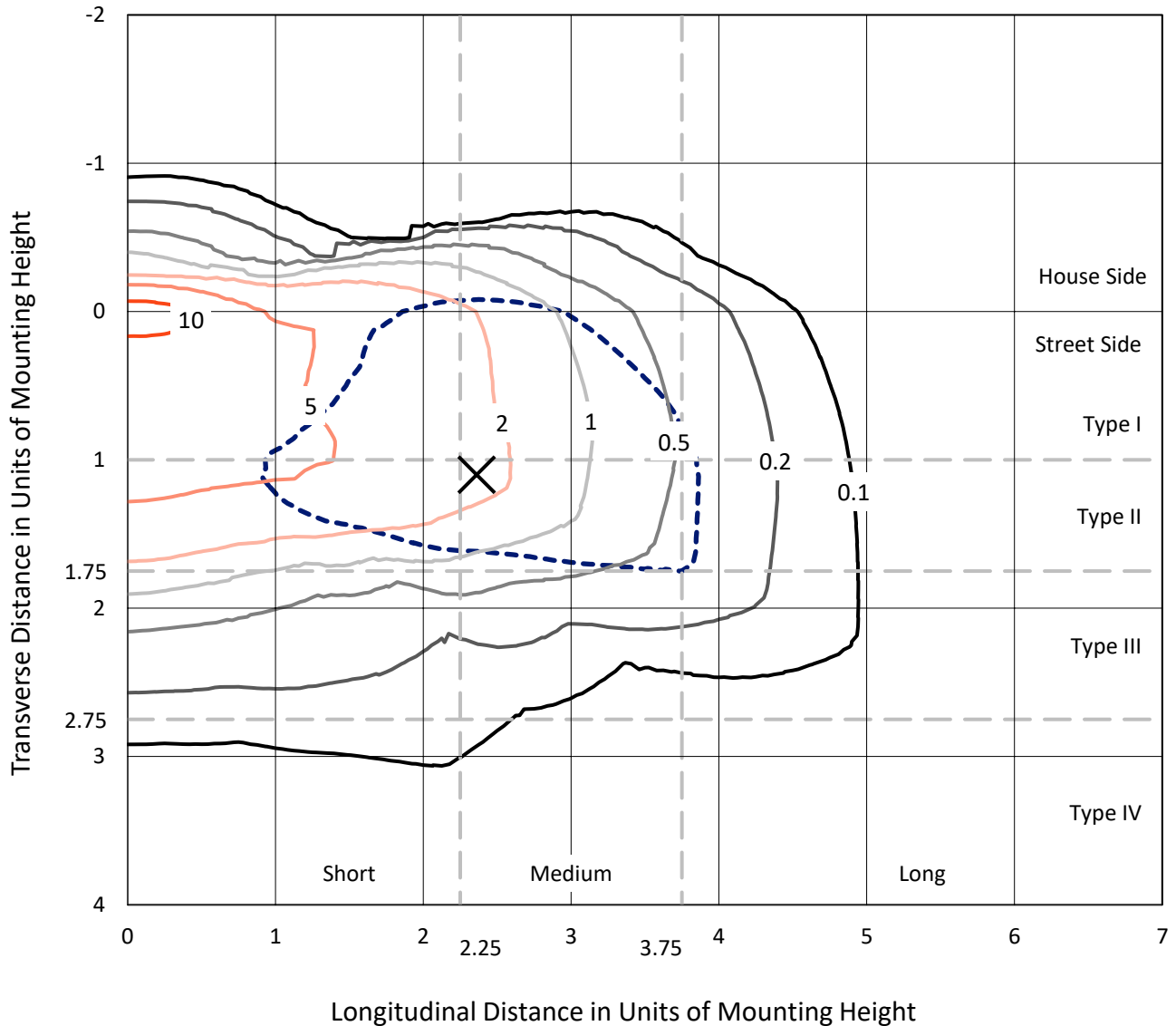
Lumens per Lamp: N/A
Luminaire Lumens: 46934 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

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

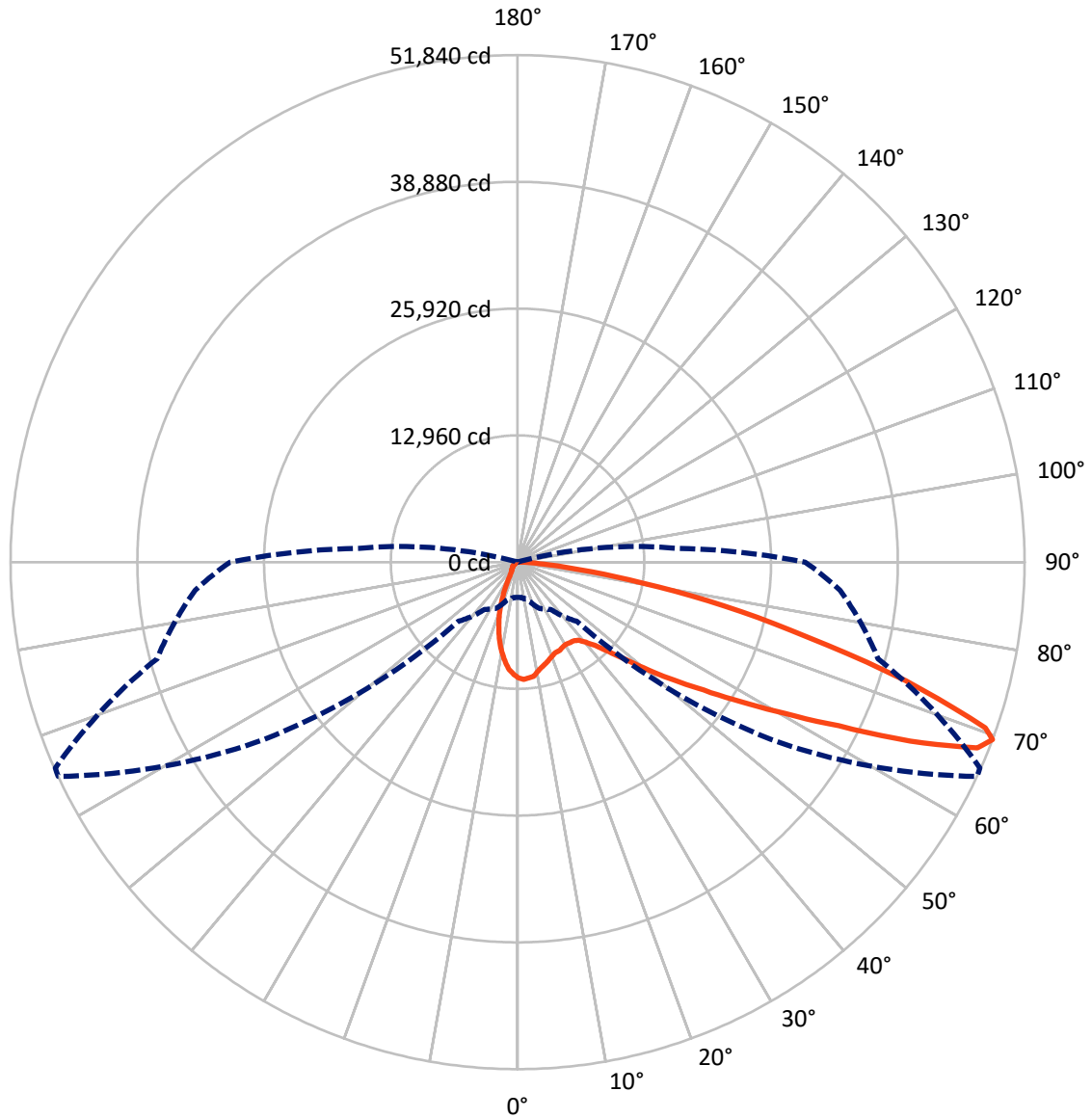
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.1 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	5693.4	0.0	5693.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	41240.6	0.0	41240.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	46934.0	0.0	46934.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	968.3	2.1
10°-20°	2118.7	4.5
20°-30°	2949.7	6.3
30°-40°	4180.0	8.9
40°-50°	6587.6	14.0
50°-60°	10689.4	22.8
60°-70°	11937.9	25.4
70°-80°	6722.4	14.3
80°-90°	780.0	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°	46934.0	100.0
0°-180°	46934.0	100.0



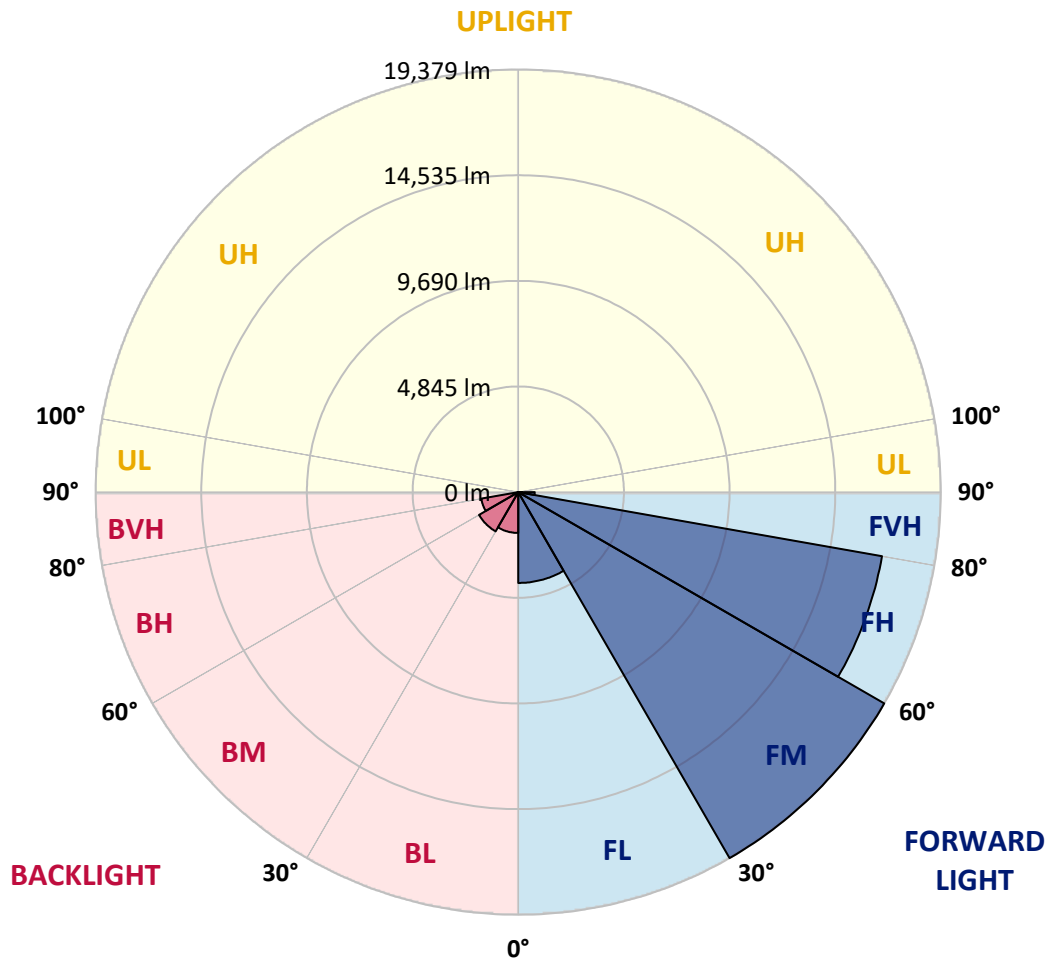
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4164.9	8.9			
FM (30°-60°)	19379.5	41.3			
FH (60°-80°)	16937.7	36.1			G5
FVH (80°-90°)	758.5	1.6			G5
BL (0°-30°)	1871.8	4.0	B3/2500		
BM (30°-60°)	2077.5	4.4	B2/2500		
BH (60°-80°)	1722.6	3.7	B3/2500		G3/2500
BVH (80°-90°)	21.5	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-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1
2.5°	11396.3	11484.9	11510.2	11598.9	11643.2	11833.1	11940.8	12004.1	11972.4	12042.1	12048.4
5°	10585.9	10535.2	10668.2	10763.2	10965.8	11295.0	11630.5	11890.1	12010.4	12124.4	12105.4
7.5°	9718.5	9693.2	9826.1	10041.4	10225.0	10623.9	11162.0	11801.5	11776.2	12054.7	12137.0
10°	9123.4	9148.7	9193.0	9408.3	9680.5	10085.7	10756.8	11352.0	11484.9	12073.7	12238.3
12.5°	8578.9	8623.2	8705.5	8927.1	9243.7	9661.5	10313.6	11010.1	11212.7	11966.1	12295.3
15°	8401.6	8300.3	8464.9	8629.5	8958.7	9332.3	9883.1	10750.5	10839.1	11839.5	12390.3
17.5°	8256.0	8192.7	8268.6	8401.6	8749.8	9053.7	9572.9	10471.9	10636.5	11788.8	12377.6
20°	8300.3	8243.3	8275.0	8376.3	8534.6	8819.5	9300.6	10206.0	10383.3	11554.6	12358.6
22.5°	8426.9	8471.2	8414.3	8439.6	8490.2	8635.9	9155.0	10016.1	10168.0	11510.2	12466.3
25°	8996.7	8920.8	8844.8	8813.1	8515.6	8578.9	9110.7	10003.4	10111.0	11352.0	12377.6
27.5°	9591.9	9528.6	9496.9	9313.3	8908.1	8718.2	9117.0	9826.1	9971.7	11288.7	12270.0
30°	10313.6	10395.9	10269.3	10047.7	9484.2	9015.7	9186.7	9737.5	9940.1	11048.1	12200.4
32.5°	11073.4	11117.7	11181.0	11016.4	10288.3	9465.2	9395.6	9819.8	9832.5	11048.1	12042.1
35°	11934.4	11871.1	12035.7	12048.4	11408.9	10263.0	9794.5	9876.8	10009.7	10997.4	11985.1
37.5°	12675.2	12782.8	12972.8	13276.7	12618.2	11390.0	10414.9	10142.7	10199.7	11231.7	12029.4
40°	13485.6	13593.2	14023.8	14327.7	13954.1	12656.2	11358.3	10763.2	10807.5	11579.9	12257.3
42.5°	14378.3	14587.2	15100.1	15631.9	15530.6	14264.3	12573.9	11674.9	11655.9	12447.3	12725.9
45°	15587.6	15866.2	16423.3	17037.4	17126.1	16106.7	14194.7	13036.1	13099.4	13580.6	13694.5
47.5°	17271.7	17259.0	17803.5	18487.3	19000.1	18018.8	16132.1	14865.8	14859.5	15372.3	15131.7
50°	18898.8	18905.2	19050.8	19842.2	21171.8	20671.6	18531.6	17297.0	17227.4	17480.6	17094.4
52.5°	19652.3	19563.6	19456.0	20412.0	22843.2	24014.5	21570.6	20051.1	19994.1	19842.2	19740.9
55°	18860.9	18892.5	18886.2	19880.2	23723.3	27541.0	25470.7	23083.8	22988.8	22514.0	22653.3
57.5°	16322.0	16220.7	16442.3	17993.5	22716.6	29946.9	31048.5	26907.9	26661.0	25084.5	24767.9
60°	12149.7	12181.4	12365.0	14194.7	20215.7	30453.4	36385.8	31396.8	30333.1	26895.2	26458.4
62.5°	8483.9	8420.6	8490.2	9515.9	14454.3	28427.4	39994.6	36854.3	35828.7	28952.9	28699.6
65°	6071.7	5989.4	6268.0	6894.8	8680.2	21735.2	40507.5	44122.6	43204.6	32238.8	31631.0
67.5°	4368.6	4355.9	4678.8	5818.4	6166.7	12516.9	36708.7	50707.1	50150.0	36138.9	33416.4
69°	3615.2	3621.5	3931.7	5210.6	5888.1	8547.2	31586.7	51840.4	51739.1	38152.2	33080.9
70°	3153.0	3178.3	3539.2	4849.8	5774.1	7027.7	27230.8	50726.1	50624.8	38544.8	31972.9
72.5°	1943.7	1962.7	2437.5	3887.4	5489.2	5736.1	16284.0	41501.5	41849.7	36746.7	27547.4
75°	930.7	937.0	1278.9	2811.1	5292.9	5438.6	8724.5	30624.3	31358.8	29668.3	21526.3
77.5°	493.8	493.8	614.1	1494.2	4286.3	5115.7	5179.0	21602.3	22210.1	18759.6	12238.3
80°	246.9	253.3	373.5	778.7	2659.1	5014.4	4045.7	12884.1	13213.4	7654.5	3811.4
82.5°	95.0	101.3	177.3	468.5	1380.2	4235.6	3551.8	6337.6	6255.3	1791.7	930.7
85°	12.7	12.7	63.3	278.6	588.8	1867.7	2931.4	2646.5	2557.8	392.5	449.5
87.5°	0.0	0.0	12.7	82.3	177.3	544.5	1133.3	728.1	810.4	107.6	221.6
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°	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1
2.5°	12016.7	11883.8	11681.2	11484.9	11276.0	11022.7	10744.2	10642.9	10465.6	10452.9	10554.2
5°	12004.1	11788.8	11434.3	11016.4	10421.3	9971.7	9484.2	9129.7	8857.4	8680.2	8724.5
7.5°	12067.4	11807.8	11193.7	10294.6	9528.6	8635.9	7882.4	7363.3	6888.4	6654.2	6628.8
10°	11966.1	11617.9	10718.8	9458.9	8332.0	7084.7	5983.0	5286.6	4577.5	4317.9	4330.6
12.5°	12023.1	11535.6	10206.0	8597.9	7046.7	5425.9	4109.0	3159.3	2494.5	2279.3	2253.9
15°	12061.1	11358.3	9712.2	7565.9	5622.2	3697.5	2380.6	1791.7	1582.8	1544.8	1538.5
17.5°	11915.4	11143.0	9015.7	6546.5	4166.0	2247.6	1582.8	1462.5	1424.5	1399.2	1386.5
20°	11909.1	11016.4	8414.3	5501.9	2779.4	1532.2	1367.6	1323.2	1266.3	1247.3	1247.3
22.5°	11801.5	10750.5	7692.5	4355.9	1772.8	1316.9	1228.3	1158.6	1095.3	1070.0	1063.7
25°	11769.8	10440.3	7015.0	3273.3	1348.6	1177.6	1089.0	987.7	911.7	873.7	854.7
27.5°	11681.2	10174.3	6331.3	2304.6	1177.6	1051.0	937.0	829.4	740.8	683.8	677.4
30°	11364.6	9895.8	5571.5	1595.5	1070.0	930.7	804.1	677.4	588.8	550.8	538.2
32.5°	11231.7	9636.2	4742.1	1228.3	975.0	823.1	677.4	563.5	493.8	455.9	449.5
35°	11073.4	9256.3	3938.0	1070.0	886.4	715.4	569.8	474.8	417.9	386.2	386.2
37.5°	11092.4	8952.4	3184.6	968.7	791.4	614.1	487.5	405.2	354.6	322.9	322.9
40°	11035.4	8711.8	2475.5	880.0	702.8	525.5	411.5	341.9	297.6	265.9	259.6
42.5°	11295.0	8648.5	1867.7	804.1	614.1	449.5	354.6	291.2	246.9	208.9	208.9
45°	11731.8	8749.8	1456.2	734.4	525.5	386.2	303.9	240.6	196.3	170.9	164.6
47.5°	12896.8	9148.7	1139.6	677.4	449.5	335.6	253.3	196.3	158.3	133.0	126.6
50°	14587.2	10041.4	968.7	595.1	379.9	284.9	208.9	152.0	126.6	101.3	95.0
52.5°	16993.1	11541.9	880.0	525.5	316.6	234.3	164.6	120.3	95.0	76.0	69.6
55°	19614.3	13416.0	797.7	443.2	265.9	189.9	133.0	95.0	69.6	50.7	44.3
57.5°	21659.3	15036.8	728.1	367.2	215.3	152.0	101.3	69.6	50.7	31.7	25.3
60°	23894.2	16176.4	639.5	291.2	177.3	114.0	76.0	50.7	38.0	19.0	19.0
62.5°	26198.8	17512.3	525.5	227.9	139.3	88.6	57.0	38.0	25.3	6.3	6.3
65°	29402.4	18556.9	405.2	177.3	107.6	63.3	44.3	31.7	12.7	0.0	0.0
67.5°	30307.8	18044.1	297.6	139.3	76.0	44.3	31.7	19.0	6.3	0.0	0.0
69°	29402.4	16252.4	259.6	120.3	63.3	38.0	25.3	12.7	6.3	0.0	0.0
70°	27750.0	14859.5	227.9	101.3	57.0	38.0	19.0	12.7	6.3	0.0	0.0
72.5°	23210.4	11396.3	177.3	76.0	44.3	31.7	19.0	12.7	0.0	0.0	0.0
75°	17024.8	7040.4	133.0	57.0	38.0	25.3	19.0	12.7	0.0	0.0	0.0
77.5°	9123.4	2570.5	95.0	38.0	25.3	19.0	19.0	12.7	0.0	0.0	0.0
80°	2500.9	759.8	69.6	25.3	19.0	12.7	12.7	6.3	0.0	0.0	0.0
82.5°	683.8	196.3	44.3	25.3	19.0	12.7	6.3	0.0	0.0	0.0	0.0
85°	367.2	76.0	25.3	19.0	12.7	6.3	0.0	0.0	0.0	0.0	0.0
87.5°	189.9	25.3	19.0	12.7	12.7	6.3	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)