

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: P484545

Luminaire Tested: **IFLD-L-SA8C-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484545
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

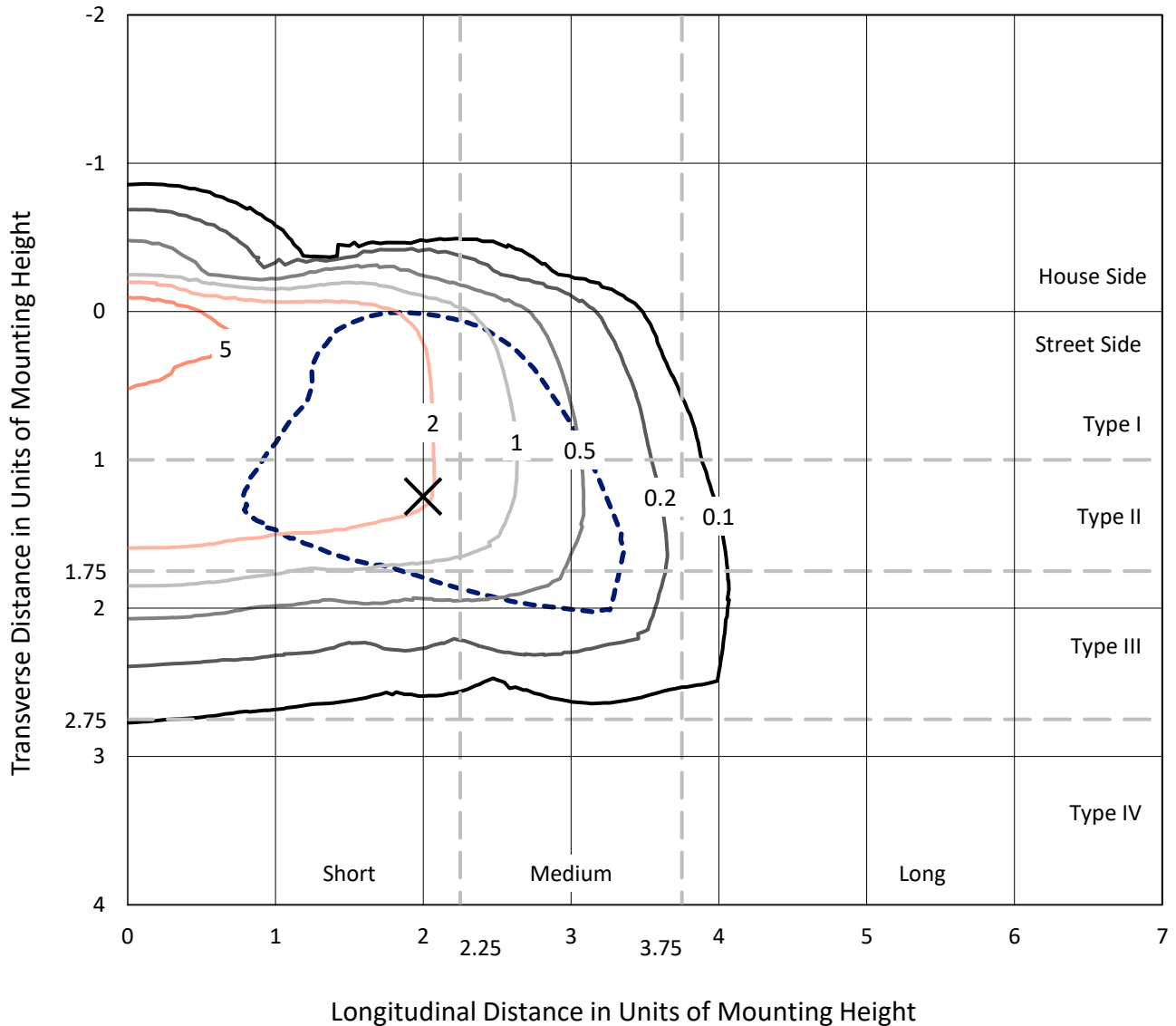
Lumens per Lamp: N/A
Luminaire Lumens: 31146.2 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 420.3
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

REPORT NUMBER: P484545
 CATALOG NUMBER: IFLD-L-SA8C-827-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

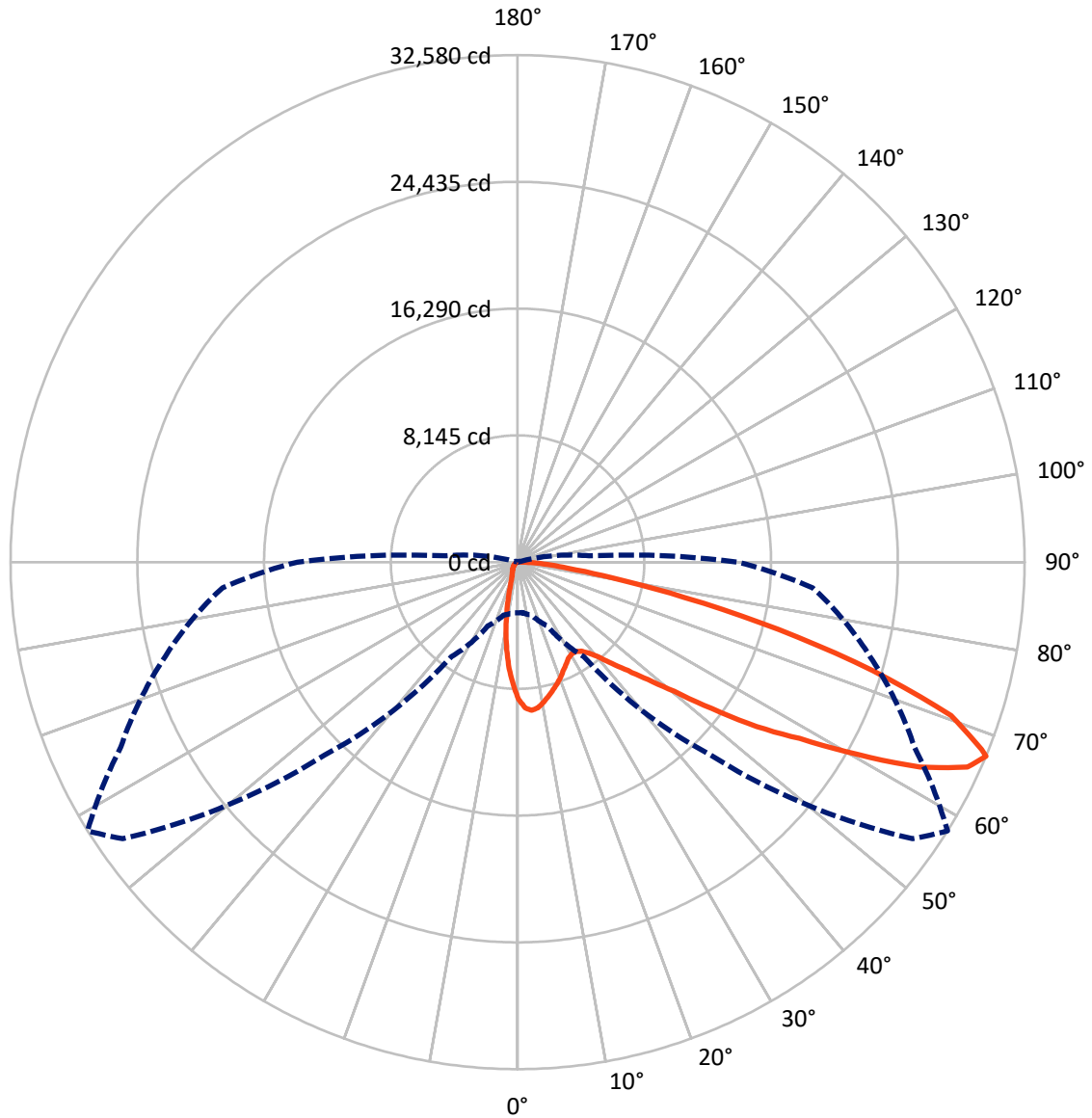
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

REPORT NUMBER: P484545
CATALOG NUMBER: IFLD-L-SA8C-827-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P484545
 CATALOG NUMBER: IFLD-L-SA8C-827-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2574.4	0.0	2574.4
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	28571.8	0.0	28571.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	31146.2	0.0	31146.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.2	2.2
10°-20°	1452.3	4.7
20°-30°	1926.8	6.2
30°-40°	2670.0	8.6
40°-50°	4356.6	14.0
50°-60°	7657.5	24.6
60°-70°	8481.3	27.2
70°-80°	3514.7	11.3
80°-90°	386.9	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°	31146.2	100.0
0°-180°	31146.2	100.0

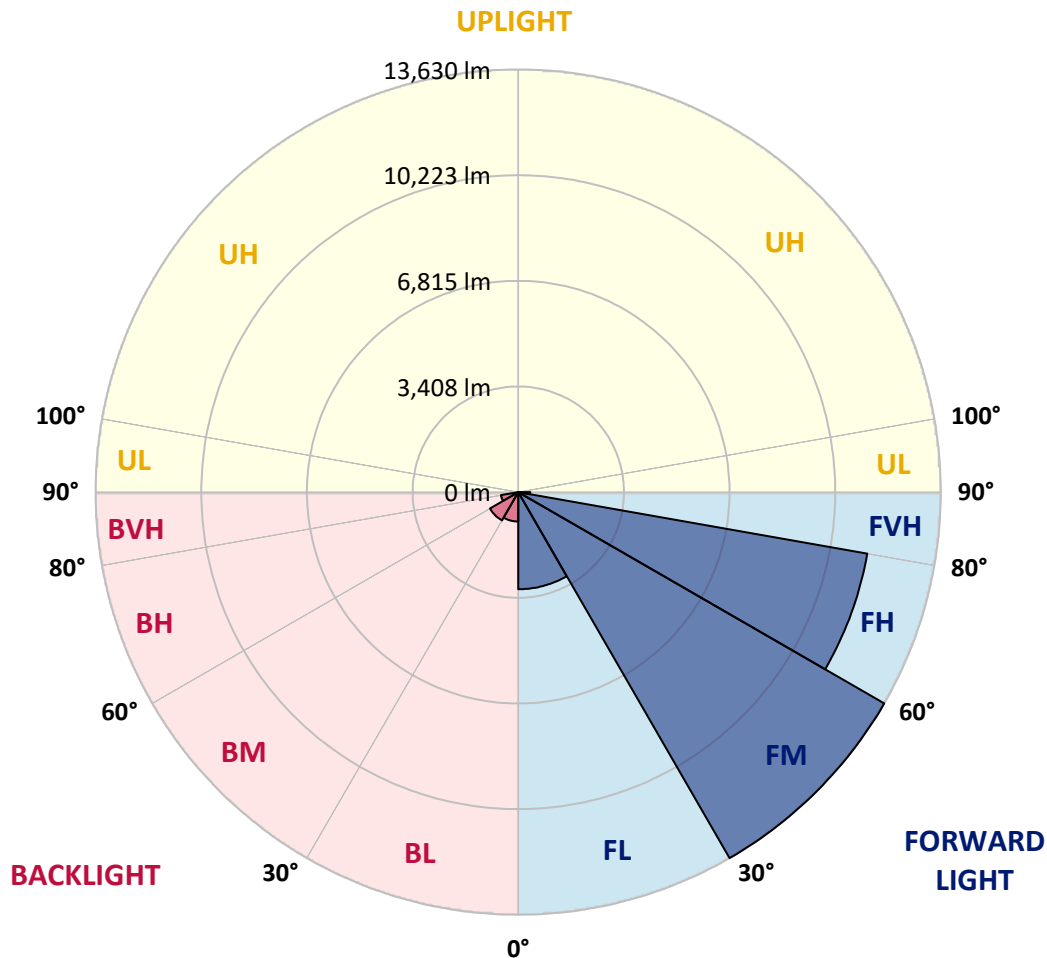


REPORT NUMBER: P484545
 CATALOG NUMBER: IFLD-L-SA8C-827-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3131.1	10.1			
FM (30°-60°)	13630.2	43.8			
FH (60°-80°)	11430.0	36.7			G4/12000
FVH (80°-90°)	380.5	1.2			G3/500
BL (0°-30°)	948.2	3.0	B2/1000		
BM (30°-60°)	1053.9	3.4	B2/2500		
BH (60°-80°)	566.0	1.8	B2/1000		G2/1000
BVH (80°-90°)	6.4	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





REPORT NUMBER: P484545

CATALOG NUMBER: IFLD-L-SA8C-827-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1
2.5°	9601.5	9634.6	9663.6	9609.8	9655.3	9589.1	9419.6	9382.4	9353.4	9101.2	8956.5
5°	9597.4	9560.2	9589.1	9613.9	9551.9	9601.5	9560.2	9564.3	9452.7	9225.2	8820.0
7.5°	8956.5	8939.9	8956.5	9076.4	9212.8	9320.4	9382.4	9444.4	9370.0	9030.9	8638.1
10°	8092.2	8174.9	8220.4	8435.5	8646.3	8844.8	9039.2	9155.0	9134.3	8997.8	8439.6
12.5°	7488.5	7463.7	7629.1	7769.7	7980.6	8381.7	8720.8	8828.3	8952.3	8762.1	8179.1
15°	6930.3	6864.1	6963.4	7207.4	7567.1	7885.5	8361.0	8522.3	8679.4	8729.0	8038.5
17.5°	6396.9	6430.0	6533.3	6752.5	7091.6	7538.2	7984.7	8216.3	8592.6	8526.4	7827.6
20°	6140.5	6210.8	6248.0	6359.7	6595.4	7042.0	7707.7	7893.8	8294.9	8522.3	7620.9
22.5°	6152.9	6152.9	6066.1	6132.2	6347.3	6694.6	7331.4	7538.2	8174.9	8307.3	7434.8
25°	6285.2	6202.5	6206.7	6128.1	6219.1	6409.3	6992.3	7244.6	7931.0	8327.9	7335.5
27.5°	6384.5	6367.9	6343.1	6322.5	6206.7	6235.6	6769.0	6975.8	7835.9	8303.1	7182.5
30°	6744.2	6669.8	6645.0	6599.5	6446.5	6305.9	6591.2	6851.7	7761.4	8361.0	7095.7
32.5°	7046.1	7058.5	7079.2	6946.8	6814.5	6467.2	6640.9	6847.6	7707.7	8493.3	7182.5
35°	7426.5	7480.3	7488.5	7447.2	7306.6	6963.4	6847.6	7025.4	7798.7	8729.0	7190.8
37.5°	8005.4	7947.5	8104.7	8121.2	8022.0	7567.1	7327.3	7397.6	8067.4	9105.3	7505.1
40°	8381.7	8452.0	8745.6	8927.5	8758.0	8344.5	8022.0	8009.5	8456.1	9696.6	7893.8
42.5°	8799.3	8956.5	9279.0	9671.8	9651.2	9266.6	8939.9	8886.2	9146.7	10552.6	8509.9
45°	9370.0	9510.6	9961.3	10552.6	10875.1	10548.5	10056.4	9948.9	9986.1	11718.7	9560.2
47.5°	10316.9	10279.7	10928.9	11511.9	12041.2	11789.0	11578.1	11263.8	11234.9	13091.5	11011.6
50°	11387.9	11379.6	11958.5	12620.1	13232.1	13724.2	13372.7	13029.5	13037.7	14956.4	12719.3
52.5°	12405.1	12566.3	13190.7	13848.2	14898.5	15427.8	15766.9	15630.4	14972.9	16622.8	14547.0
55°	12942.6	13083.2	13703.5	14836.5	16494.6	17855.0	18773.0	18657.2	17387.8	18500.1	16349.9
57.5°	12434.0	12529.1	13368.5	14853.0	17611.1	20646.2	21527.0	21382.2	19885.3	19935.0	18529.1
60°	10304.5	10453.3	11702.1	13443.0	17176.9	22796.4	25318.8	25099.6	22159.6	21750.2	19930.8
62.5°	7137.1	7236.3	8261.8	10428.5	15117.7	23544.8	28899.7	29019.6	24557.9	23164.4	20348.5
65°	4623.0	4614.7	5201.9	6669.8	10713.9	21278.8	31016.8	31761.1	26873.5	23379.4	20220.3
67°	3266.7	3254.3	3531.3	4523.7	7418.2	17532.5	30979.6	32579.9	28130.6	23441.5	19033.5
67.5°	3014.4	3002.0	3266.7	4159.8	6694.6	16304.4	30516.5	32158.1	28573.0	23354.6	18512.5
70°	2340.4	2307.3	2406.6	2865.6	3899.3	10544.3	26116.8	29540.6	27655.1	21187.9	14782.7
72.5°	1691.2	1728.4	1885.6	2352.8	3059.9	5673.3	19906.0	23888.1	23098.3	15969.5	9394.8
75°	1178.5	1211.6	1463.8	1918.7	2807.7	3440.3	13459.5	17325.8	16089.4	8815.9	4002.7
77.5°	616.1	657.5	934.5	1534.1	2551.3	2663.0	8042.6	10986.8	8526.4	3138.5	1104.1
80°	285.3	306.0	467.3	1087.5	2133.7	2340.4	4689.1	6111.6	3411.4	703.0	380.4
82.5°	124.1	136.5	215.0	624.4	1513.4	2046.8	2902.8	3204.6	1236.4	227.4	235.7
85°	24.8	28.9	82.7	330.8	731.9	1240.5	2038.6	1902.1	620.3	111.6	186.1
87.5°	0.0	0.0	20.7	95.1	198.5	368.0	864.2	864.2	190.2	57.9	70.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484545

CATALOG NUMBER: IFLD-L-SA8C-827-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1
2.5°	8828.3	8679.4	8352.8	8050.9	7835.9	7591.9	7269.4	7124.7	7070.9	6996.5	6884.8
5°	8596.7	8414.8	7856.6	7294.2	6678.1	6210.8	5714.6	5425.2	5206.0	5069.5	5024.1
7.5°	8270.1	7897.9	7145.3	6243.9	5445.8	4751.1	3998.6	3490.0	3163.3	3031.0	2906.9
10°	8009.5	7525.7	6380.3	5259.8	4197.1	3179.8	2332.2	1885.6	1546.5	1418.3	1401.8
12.5°	7670.5	7091.6	5665.0	4254.9	2919.3	1893.8	1290.1	1120.6	1025.5	1008.9	996.5
15°	7389.3	6698.7	4986.8	3295.6	1889.7	1182.6	1004.8	963.5	938.7	930.4	934.5
17.5°	7199.1	6277.0	4292.2	2398.3	1244.6	967.6	926.2	901.4	889.0	884.9	872.5
20°	6822.8	5921.4	3605.7	1678.8	971.7	893.2	860.1	839.4	827.0	822.9	818.7
22.5°	6607.8	5470.6	2919.3	1170.2	864.2	810.5	785.7	769.1	748.4	736.0	731.9
25°	6392.8	5139.8	2307.3	909.7	785.7	748.4	711.2	690.5	657.5	640.9	636.8
27.5°	6140.5	4813.2	1778.1	789.8	707.1	669.9	632.7	599.6	558.2	541.7	533.4
30°	5995.8	4494.8	1339.7	707.1	649.2	599.6	554.1	512.7	467.3	438.3	430.0
32.5°	5921.4	4205.3	1004.8	645.1	587.2	533.4	475.5	425.9	384.6	359.7	355.6
35°	5830.4	3924.1	789.8	587.2	529.3	471.4	413.5	363.9	322.5	301.9	293.6
37.5°	5925.5	3758.7	657.5	541.7	483.8	417.6	355.6	306.0	272.9	252.2	248.1
40°	6186.0	3622.3	570.6	500.3	438.3	368.0	310.1	260.5	231.6	215.0	206.8
42.5°	6587.1	3622.3	516.9	459.0	397.0	322.5	264.6	227.4	198.5	181.9	177.8
45°	7314.9	3733.9	471.4	417.6	347.3	277.0	227.4	190.2	161.3	144.7	140.6
47.5°	8336.2	3990.3	434.2	380.4	310.1	244.0	198.5	161.3	132.3	115.8	111.6
50°	9709.0	4573.3	397.0	334.9	277.0	210.9	165.4	128.2	103.4	86.8	82.7
52.5°	11420.9	5400.3	359.7	310.1	235.7	177.8	132.3	103.4	78.6	66.2	62.0
55°	13232.1	6413.4	314.3	277.0	202.6	148.9	107.5	78.6	57.9	49.6	45.5
57.5°	15055.6	7194.9	277.0	239.8	165.4	119.9	86.8	62.0	41.4	33.1	28.9
60°	16023.2	7269.4	239.8	198.5	132.3	95.1	66.2	45.5	28.9	20.7	16.5
62.5°	16172.1	6607.8	206.8	161.3	107.5	74.4	45.5	33.1	16.5	8.3	8.3
65°	15407.1	5507.9	177.8	128.2	82.7	53.8	33.1	20.7	8.3	4.1	0.0
67°	14166.6	4614.7	153.0	107.5	66.2	41.4	24.8	12.4	4.1	0.0	0.0
67.5°	13686.9	4366.6	144.7	99.2	62.0	37.2	20.7	12.4	4.1	0.0	0.0
70°	10622.9	3117.8	107.5	70.3	45.5	28.9	16.5	8.3	0.0	0.0	0.0
72.5°	6508.5	1823.5	82.7	49.6	33.1	20.7	12.4	4.1	0.0	0.0	0.0
75°	2729.1	628.5	70.3	37.2	24.8	12.4	8.3	4.1	0.0	0.0	0.0
77.5°	711.2	235.7	49.6	24.8	16.5	12.4	8.3	4.1	0.0	0.0	0.0
80°	289.5	107.5	33.1	16.5	16.5	12.4	8.3	4.1	0.0	0.0	0.0
82.5°	190.2	49.6	20.7	16.5	12.4	8.3	4.1	0.0	0.0	0.0	0.0
85°	144.7	28.9	12.4	12.4	8.3	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	62.0	16.5	12.4	8.3	8.3	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)