

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: P484813

Luminaire Tested: **IFLD-L-SA7C-740-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484813
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

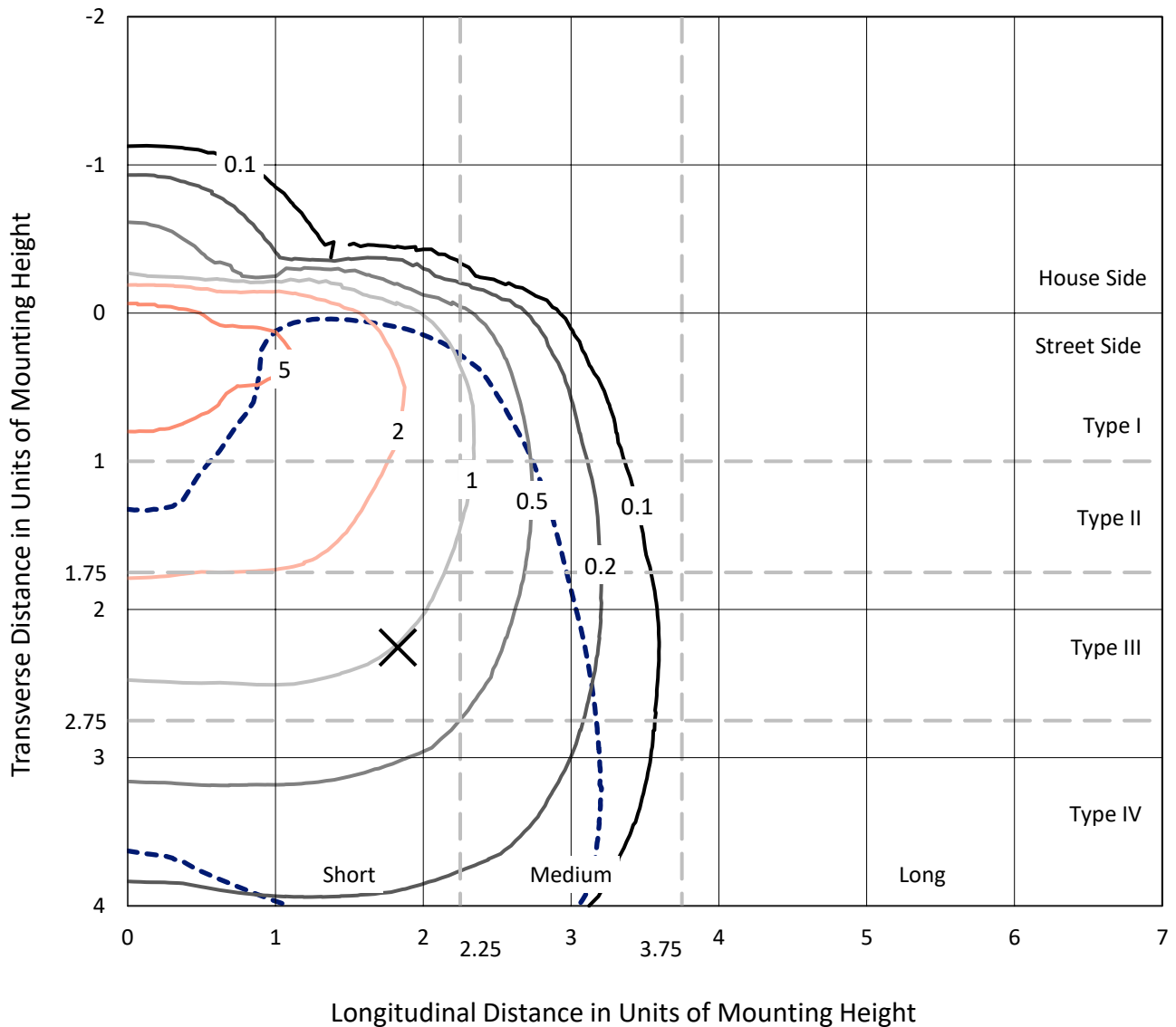
Lumens per Lamp: N/A
Luminaire Lumens: 36622.5 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 369
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

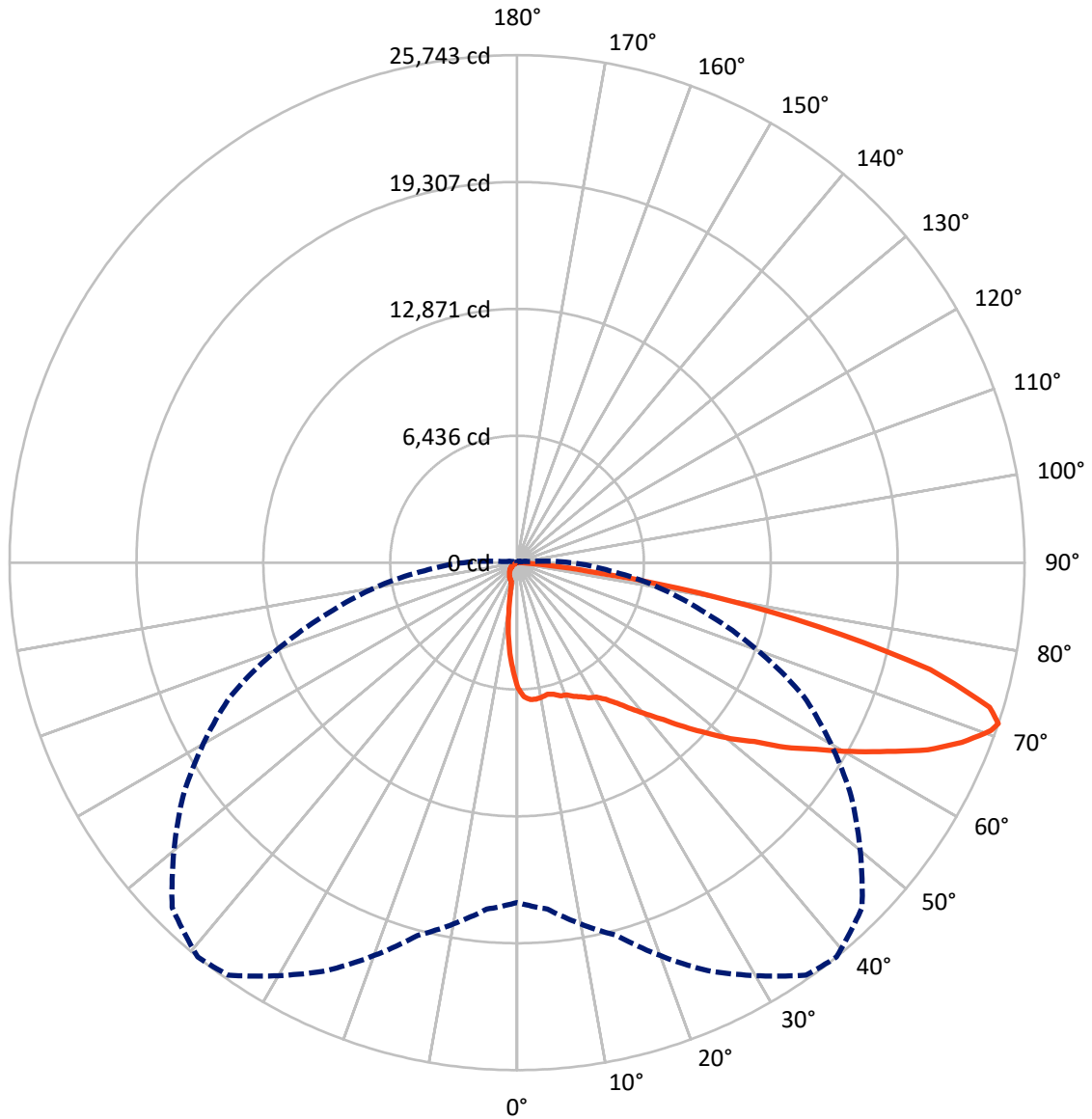
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2757.1	0.0	2757.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	33865.4	0.0	33865.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	36622.5	0.0	36622.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.9	1.5
10°-20°	1311.8	3.6
20°-30°	2105.8	5.8
30°-40°	3223.5	8.8
40°-50°	5174.2	14.1
50°-60°	7600.1	20.8
60°-70°	9572.1	26.1
70°-80°	6388.2	17.4
80°-90°	713.9	1.9
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°	36622.5	100.0
0°-180°	36622.5	100.0

Coefficient of Utilization



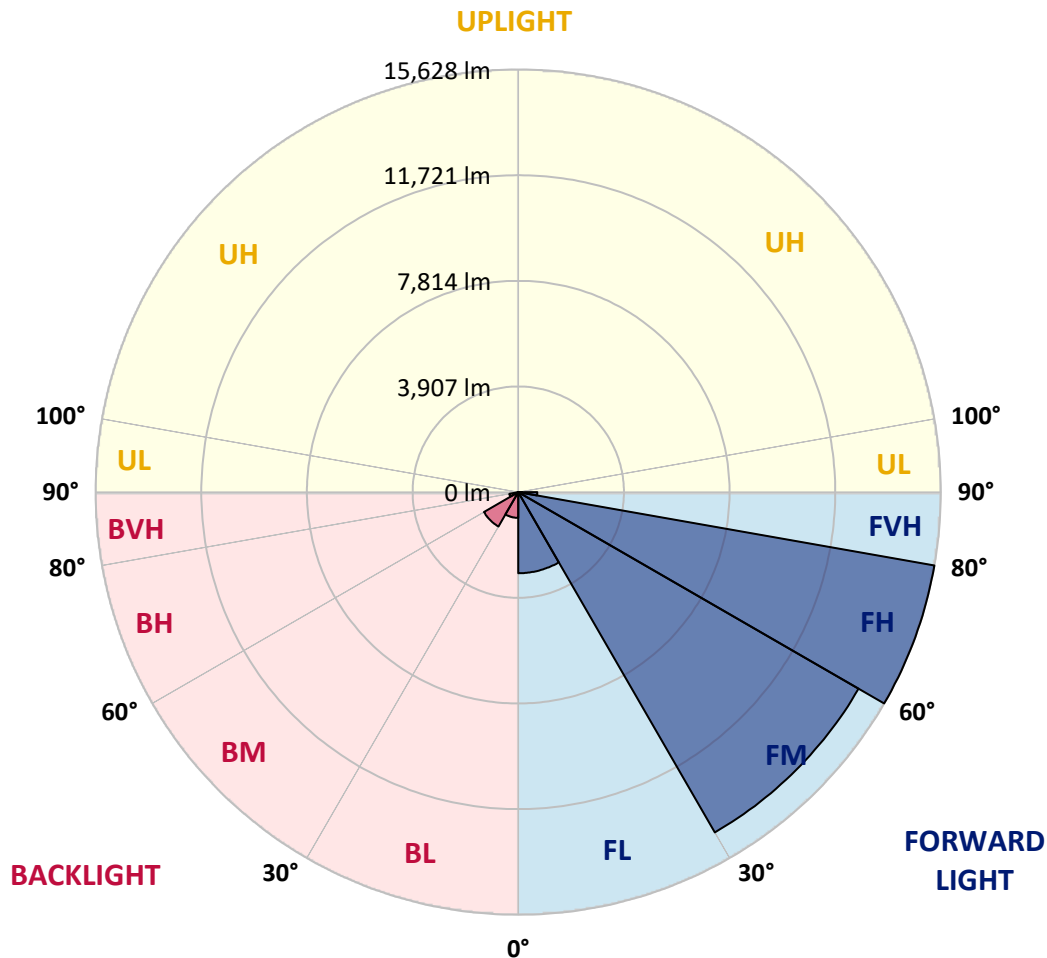
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2998.6	8.2			
FM (30°-60°)	14532.3	39.7			
FH (60°-80°)	15628.4	42.7			G5
FVH (80°-90°)	706.0	1.9			G4/750
BL (0°-30°)	951.9	2.6	B2/1000		
BM (30°-60°)	1465.5	4.0	B2/2500		
BH (60°-80°)	331.8	0.9	B1/500		G1/500
BVH (80°-90°)	7.9	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6374.4	6374.4	6374.4	6374.4	6374.4	6374.4	6374.4	6374.4	6374.4	6374.4	6374.4
2.5°	6869.1	6936.4	6869.1	6840.3	6811.5	6816.3	6739.5	6753.9	6662.6	6542.5	6446.4
5°	7085.3	7176.6	7104.5	7070.9	7066.1	6974.8	6936.4	6845.1	6734.6	6547.3	6432.0
7.5°	7066.1	7046.9	7080.5	7051.7	6989.2	6989.2	6946.0	6816.3	6705.8	6494.5	6297.5
10°	6922.0	6979.6	6950.8	6917.2	6931.6	6936.4	6854.7	6763.5	6729.8	6518.5	6196.6
12.5°	6907.6	6811.5	6917.2	6922.0	6859.5	6854.7	6845.1	6821.1	6715.4	6523.3	6220.7
15°	6859.5	6821.1	6926.8	6931.6	6946.0	6931.6	6946.0	6926.8	6821.1	6710.6	6326.3
17.5°	6898.0	6854.7	7003.7	7075.7	7042.1	7109.3	7085.3	6998.8	6907.6	6777.9	6427.2
20°	6907.6	6970.0	7133.3	7162.2	7267.8	7157.4	7152.6	7061.3	7003.7	6864.3	6489.7
22.5°	7085.3	7114.1	7315.9	7378.3	7383.1	7368.7	7248.6	7143.0	7118.9	6946.0	6504.1
25°	7354.3	7455.2	7546.5	7584.9	7599.3	7532.0	7407.2	7272.7	7215.0	7104.5	6653.0
27.5°	7829.9	7767.4	7849.1	7906.7	7743.4	7767.4	7608.9	7493.6	7412.0	7315.9	6825.9
30°	8252.6	8194.9	8199.7	8190.1	8050.8	7921.1	7877.9	7676.2	7575.3	7613.7	7094.9
32.5°	8632.1	8507.2	8612.9	8564.8	8305.4	8267.0	8233.4	7978.8	7998.0	8175.7	7498.4
35°	8982.7	8939.5	9026.0	8939.5	8766.6	8757.0	8723.3	8502.4	8608.1	8862.6	8190.1
37.5°	9304.6	9319.0	9424.7	9381.4	9395.8	9405.5	9386.2	9150.9	9453.5	10025.1	8997.1
40°	9602.4	9583.2	9842.6	9977.1	10005.9	10111.6	10111.6	10053.9	10519.9	11163.6	10116.4
42.5°	9919.4	9967.5	10303.7	10529.5	10803.3	10894.6	11019.5	11048.3	11768.8	12503.8	11259.6
45°	10438.2	10356.6	10784.1	11317.3	11557.5	11879.3	12071.4	12234.8	13104.2	14113.0	12402.9
47.5°	11096.3	10933.0	11307.7	12081.1	12638.3	12902.5	13248.3	13464.5	14314.7	15357.1	13483.7
50°	11826.5	11658.3	11840.9	12907.3	13555.8	14036.1	14478.1	14751.9	15779.8	16750.2	14271.5
52.5°	12652.7	12499.0	12527.8	13767.1	14723.0	15073.7	15654.9	16063.2	17086.4	17590.8	14550.1
55°	13531.7	13493.3	13402.0	14607.8	15746.2	16534.0	16884.7	17374.6	18426.6	18047.1	14852.7
57.5°	14415.6	14295.5	14425.2	15722.2	17389.0	17859.8	18345.0	18638.0	19171.2	18445.8	14737.4
60°	15246.6	15256.2	15438.8	16932.7	18786.9	19454.6	19891.7	19714.0	19934.9	18618.8	14473.3
62.5°	15948.0	15928.7	16389.9	18292.1	20636.3	21087.8	21414.5	20621.9	20290.4	18786.9	14012.1
65°	16577.2	16793.4	17518.7	19910.9	22375.2	22894.0	22697.0	21481.7	20636.3	18292.1	12715.1
67.5°	17052.8	17374.6	18633.2	21433.7	23970.0	24335.0	24061.2	22135.0	20228.0	16351.5	10356.6
70°	17331.4	17658.0	19430.6	22701.8	25242.9	25507.1	24863.4	21630.6	17845.4	11840.9	6460.8
71°	17244.9	17643.6	19584.3	22836.3	25545.6	25742.5	24743.4	20698.7	16048.8	9914.6	4712.3
72.5°	16461.9	16836.6	18945.4	22740.2	25180.5	25060.4	23806.6	18460.2	12633.5	6321.5	2435.4
75°	12095.5	12499.0	16260.2	19670.7	22476.1	21649.8	19267.2	12955.3	6590.5	1935.9	710.9
77.5°	6023.7	6091.0	10092.4	14281.1	16486.0	15664.5	12912.1	7224.6	2464.2	571.6	355.5
80°	2776.5	2795.7	3785.2	7397.5	9967.5	9381.4	7234.2	3564.3	1114.4	302.6	278.6
82.5°	1892.6	1921.4	2281.7	3064.7	4328.0	3650.7	2930.2	2281.7	638.9	182.5	273.8
85°	345.9	317.0	1277.8	1623.6	1671.7	1133.6	1013.6	1974.3	240.2	105.7	240.2
87.5°	0.0	4.8	177.7	662.9	595.6	264.2	345.9	480.4	24.0	33.6	43.2
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°	6374.4	6374.4	6374.4	6374.4	6374.4	6374.4	6374.4	6374.4	6374.4	6374.4	6374.4
2.5°	6364.8	6311.9	6134.2	5937.3	5759.5	5620.2	5442.5	5360.8	5231.1	5159.1	5154.3
5°	6273.5	6129.4	5822.0	5490.5	5120.6	4813.2	4472.2	4280.0	4059.0	3991.8	3977.4
7.5°	6119.8	5913.2	5461.7	4995.7	4428.9	3886.1	3468.2	3021.5	2747.7	2632.4	2589.1
10°	6023.7	5773.9	5159.1	4462.5	3670.0	2906.2	2320.1	1844.6	1594.8	1474.7	1445.9
12.5°	6023.7	5754.7	4914.1	3953.4	2901.4	1988.7	1436.3	1162.5	1080.8	1052.0	1052.0
15°	6009.3	5716.3	4678.7	3429.8	2147.2	1335.4	1071.2	1013.6	1004.0	999.1	994.3
17.5°	6081.4	5649.0	4438.5	2867.7	1517.9	1052.0	984.7	975.1	965.5	965.5	955.9
20°	6134.2	5610.6	4150.3	2272.1	1133.6	975.1	946.3	931.9	927.1	922.3	931.9
22.5°	6091.0	5553.0	3794.8	1700.5	989.5	927.1	907.9	893.5	883.9	883.9	888.7
25°	6172.6	5500.1	3439.4	1282.6	927.1	883.9	864.6	855.0	850.2	845.4	835.8
27.5°	6283.1	5524.1	3016.7	1032.8	874.3	840.6	821.4	811.8	807.0	797.4	807.0
30°	6417.6	5519.3	2550.7	903.1	826.2	792.6	773.4	768.6	759.0	754.2	759.0
32.5°	6648.2	5644.2	2070.4	835.8	773.4	744.6	725.3	720.5	715.7	710.9	706.1
35°	7143.0	5797.9	1618.8	783.0	725.3	691.7	677.3	667.7	662.9	658.1	653.3
37.5°	7753.0	6139.0	1234.5	735.0	677.3	643.7	629.3	624.5	605.3	600.5	595.6
40°	8516.8	6504.1	951.1	682.1	634.1	600.5	586.0	571.6	547.6	538.0	528.4
42.5°	9467.9	6859.5	783.0	634.1	586.0	562.0	538.0	514.0	494.8	475.6	465.9
45°	10419.0	7272.7	686.9	590.8	547.6	518.8	499.6	465.9	432.3	403.5	398.7
47.5°	11211.6	7421.6	629.3	542.8	509.2	485.2	456.3	413.1	365.1	336.3	331.4
50°	11802.4	7335.1	571.6	494.8	465.9	441.9	403.5	350.7	302.6	273.8	264.2
52.5°	11917.7	6955.6	518.8	456.3	422.7	393.9	350.7	293.0	240.2	211.4	206.6
55°	11836.1	6326.3	475.6	422.7	384.3	341.1	293.0	235.4	187.3	158.5	153.7
57.5°	11667.9	5581.8	427.5	379.5	336.3	293.0	240.2	192.1	139.3	110.5	110.5
60°	11096.3	4568.2	379.5	331.4	288.2	249.8	196.9	139.3	96.1	72.1	67.3
62.5°	10298.9	3511.4	331.4	283.4	249.8	206.6	153.7	100.9	57.6	38.4	38.4
65°	8843.4	2459.4	278.6	235.4	206.6	168.1	115.3	62.4	33.6	14.4	14.4
67.5°	6720.2	1522.7	230.6	196.9	177.7	134.5	81.7	38.4	14.4	4.8	0.0
70°	3857.3	792.6	182.5	158.5	139.3	100.9	57.6	19.2	9.6	0.0	0.0
71°	2694.8	586.0	163.3	139.3	124.9	91.3	48.0	14.4	4.8	0.0	0.0
72.5°	1349.8	389.1	139.3	115.3	100.9	72.1	38.4	14.4	4.8	0.0	0.0
75°	480.4	249.8	96.1	76.9	72.1	52.8	24.0	9.6	4.8	0.0	0.0
77.5°	331.4	201.8	67.3	48.0	48.0	33.6	14.4	4.8	4.8	0.0	0.0
80°	302.6	110.5	43.2	28.8	24.0	19.2	9.6	4.8	0.0	0.0	0.0
82.5°	302.6	81.7	24.0	19.2	14.4	9.6	4.8	0.0	0.0	0.0	0.0
85°	211.4	43.2	14.4	14.4	9.6	4.8	0.0	0.0	0.0	0.0	0.0
87.5°	33.6	14.4	9.6	4.8	4.8	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)