

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: P484388

Luminaire Tested: **IFLD-L-SA8B-735-U-SL3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484388
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3
distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

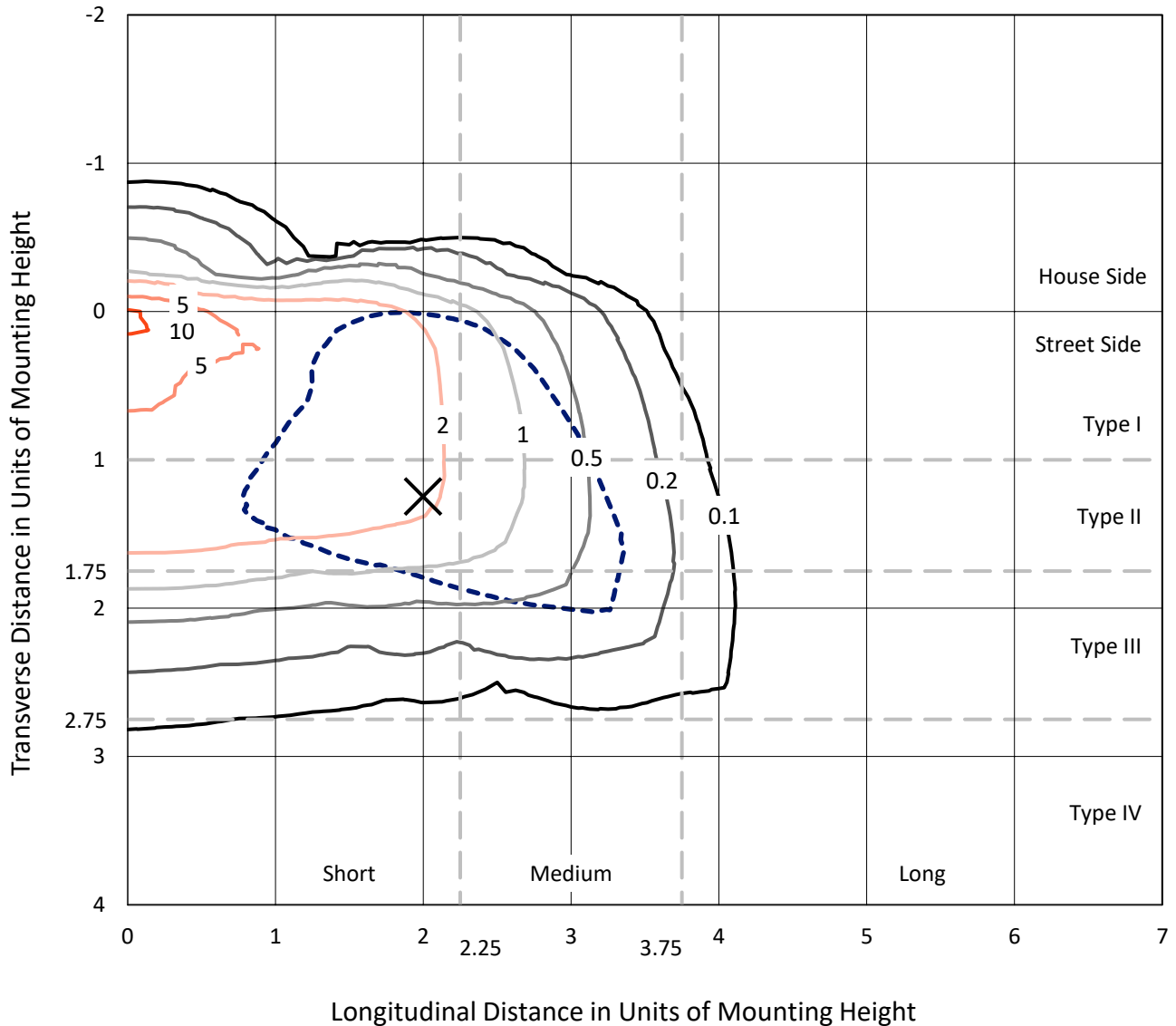
Lumens per Lamp: N/A
Luminaire Lumens: 33569.8 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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: P484388
 CATALOG NUMBER: IFLD-L-SA8B-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

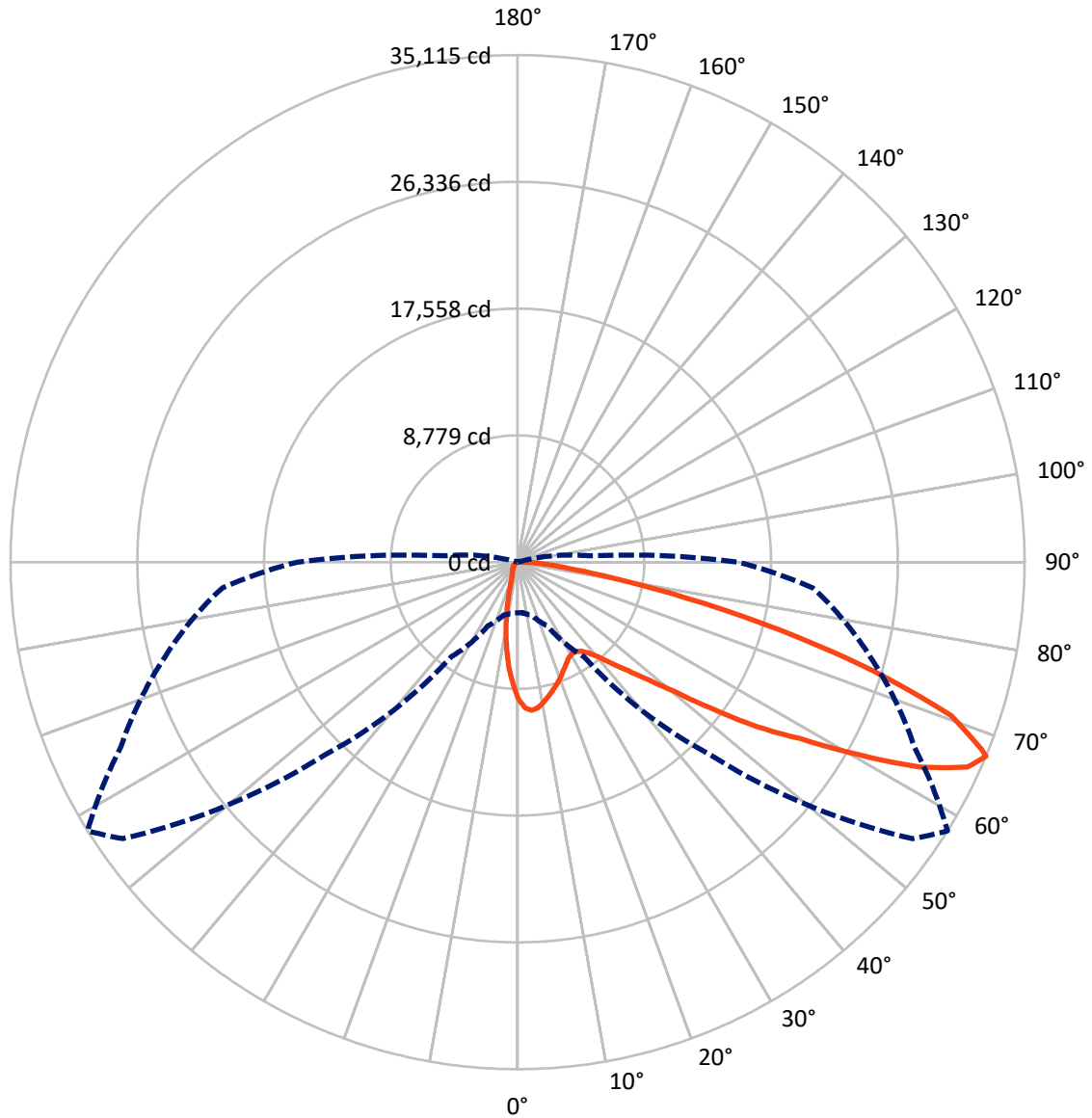
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - N/A

REPORT NUMBER: P484388
CATALOG NUMBER: IFLD-L-SA8B-735-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484388
 CATALOG NUMBER: IFLD-L-SA8B-735-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2774.8	0.0	2774.8
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	30795.0	0.0	30795.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	33569.8	0.0	33569.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.6	2.2
10°-20°	1565.3	4.7
20°-30°	2076.8	6.2
30°-40°	2877.7	8.6
40°-50°	4695.6	14.0
50°-60°	8253.4	24.6
60°-70°	9141.3	27.2
70°-80°	3788.1	11.3
80°-90°	417.0	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°	33569.8	100.0
0°-180°	33569.8	100.0

Coefficient of Utilization



REPORT NUMBER: P484388

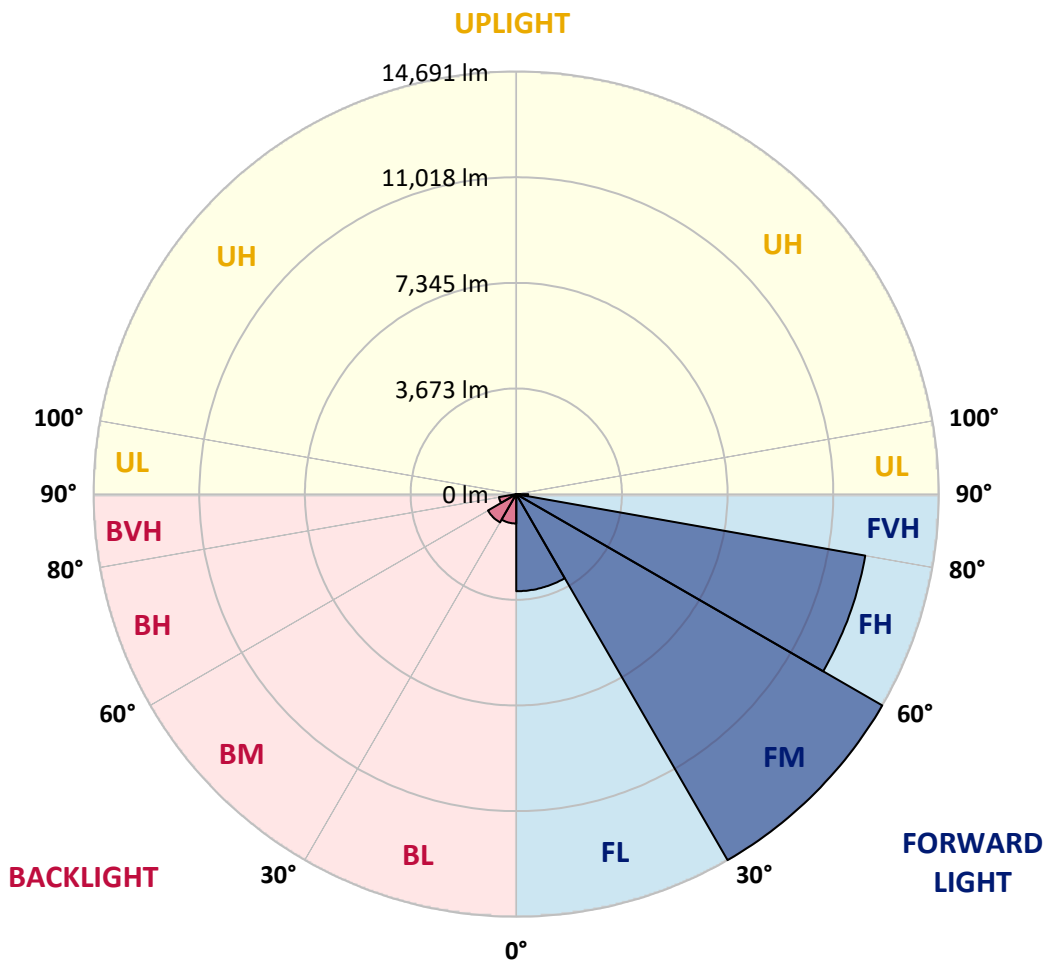
CATALOG NUMBER: IFLD-L-SA8B-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3374.7	10.1			
FM	(30°-60°)	14690.8	43.8			
FH	(60°-80°)	12319.4	36.7			G5
FVH	(80°-90°)	410.1	1.2			G3/500
BL	(0°-30°)	1022.0	3.0	B3/2500		
BM	(30°-60°)	1135.9	3.4	B2/2500		
BH	(60°-80°)	610.1	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P484388

CATALOG NUMBER: IFLD-L-SA8B-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9510.8	9510.8	9510.8	9510.8	9510.8	9510.8	9510.8	9510.8	9510.8	9510.8	9510.8
2.5°	10348.7	10384.3	10415.5	10357.6	10406.6	10335.3	10152.6	10112.5	10081.3	9809.4	9653.4
5°	10344.2	10304.1	10335.3	10362.0	10295.2	10348.7	10304.1	10308.6	10188.2	9943.1	9506.3
7.5°	9653.4	9635.6	9653.4	9782.7	9929.7	10045.6	10112.5	10179.3	10099.1	9733.6	9310.2
10°	8721.9	8811.1	8860.1	9091.8	9319.1	9533.1	9742.5	9867.3	9845.0	9698.0	9096.3
12.5°	8071.2	8044.5	8222.8	8374.3	8601.6	9033.9	9399.4	9515.2	9648.9	9443.9	8815.5
15°	7469.6	7398.3	7505.2	7768.2	8155.9	8499.1	9011.6	9185.4	9354.8	9408.3	8664.0
17.5°	6894.7	6930.3	7041.7	7277.9	7643.4	8124.7	8606.1	8855.6	9261.2	9189.9	8436.7
20°	6618.3	6694.1	6734.2	6854.5	7108.6	7589.9	8307.5	8508.0	8940.3	9185.4	8213.9
22.5°	6631.7	6631.7	6538.1	6609.4	6841.2	7215.5	7901.9	8124.7	8811.1	8953.7	8013.3
25°	6774.3	6685.2	6689.6	6605.0	6703.0	6908.0	7536.4	7808.3	8548.1	8976.0	7906.3
27.5°	6881.3	6863.5	6836.7	6814.4	6689.6	6720.8	7295.8	7518.6	8445.6	8949.2	7741.4
30°	7269.0	7188.8	7162.1	7113.0	6948.1	6796.6	7104.1	7384.9	8365.4	9011.6	7647.9
32.5°	7594.4	7607.7	7630.0	7487.4	7344.8	6970.4	7157.6	7380.4	8307.5	9154.2	7741.4
35°	8004.4	8062.3	8071.2	8026.7	7875.1	7505.2	7380.4	7572.1	8405.5	9408.3	7750.4
37.5°	8628.3	8565.9	8735.3	8753.1	8646.2	8155.9	7897.4	7973.2	8695.2	9813.8	8089.1
40°	9033.9	9109.7	9426.1	9622.2	9439.5	8993.8	8646.2	8632.8	9114.1	10451.2	8508.0
42.5°	9484.0	9653.4	10001.0	10424.4	10402.1	9987.7	9635.6	9577.6	9858.4	11373.7	9172.1
45°	10099.1	10250.6	10736.4	11373.7	11721.4	11369.3	10838.9	10723.0	10763.1	12630.5	10304.1
47.5°	11119.7	11079.6	11779.3	12407.7	12978.2	12706.3	12479.0	12140.3	12109.1	14110.2	11868.4
50°	12274.0	12265.1	12889.0	13602.1	14261.7	14792.1	14413.3	14043.3	14052.3	16120.2	13709.1
52.5°	13370.4	13544.2	14217.2	14925.8	16057.8	16628.3	16993.7	16846.7	16138.0	17916.3	15679.0
55°	13949.7	14101.3	14769.8	15991.0	17778.1	19244.4	20233.8	20109.0	18740.8	19939.7	17622.1
57.5°	13401.6	13504.1	14408.8	16008.8	18981.5	22252.7	23202.0	23046.1	21432.7	21486.2	19970.9
60°	11106.3	11266.8	12612.7	14489.0	18513.5	24570.3	27288.9	27052.7	23883.9	23442.7	21481.7
62.5°	7692.4	7799.4	8904.7	11240.0	16294.0	25377.0	31148.5	31277.7	26468.9	24966.9	21931.9
65°	4982.7	4973.8	5606.6	7188.8	11547.5	22934.6	33430.4	34232.6	28964.7	25198.7	21793.7
67°	3520.9	3507.5	3806.1	4875.7	7995.5	18896.8	33390.3	35115.0	30319.5	25265.5	20514.6
67.5°	3249.0	3235.6	3520.9	4483.5	7215.5	17573.1	32891.1	34660.4	30796.4	25171.9	19953.0
70°	2522.5	2486.9	2593.9	3088.6	4202.8	11364.8	28149.1	31839.3	29807.0	22836.6	15933.0
72.5°	1822.8	1862.9	2032.3	2535.9	3298.0	6114.7	21455.0	25746.9	24895.6	17212.1	10125.8
75°	1270.2	1305.8	1577.7	2068.0	3026.2	3708.0	14506.8	18673.9	17341.4	9501.9	4314.2
77.5°	664.1	708.6	1007.2	1653.5	2749.8	2870.2	8668.5	11841.7	9189.9	3382.7	1190.0
80°	307.5	329.8	503.6	1172.1	2299.7	2522.5	5054.0	6587.1	3676.9	757.7	410.0
82.5°	133.7	147.1	231.8	673.0	1631.2	2206.1	3128.7	3454.0	1332.6	245.1	254.0
85°	26.7	31.2	89.1	356.5	788.9	1337.0	2197.2	2050.1	668.5	120.3	200.6
87.5°	0.0	0.0	22.3	102.5	213.9	396.7	931.5	931.5	205.0	62.4	75.8
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: P484388
 CATALOG NUMBER: IFLD-L-SA8B-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9510.8	9510.8	9510.8	9510.8	9510.8	9510.8	9510.8	9510.8	9510.8	9510.8	9510.8
2.5°	9515.2	9354.8	9002.7	8677.4	8445.6	8182.7	7835.0	7679.0	7621.1	7540.9	7420.6
5°	9265.7	9069.6	8467.9	7861.8	7197.7	6694.1	6159.3	5847.3	5611.1	5464.0	5415.0
7.5°	8913.6	8512.5	7701.3	6729.8	5869.6	5120.9	4309.7	3761.5	3409.4	3266.8	3133.1
10°	8632.8	8111.4	6876.8	5669.0	4523.6	3427.3	2513.6	2032.3	1666.8	1528.7	1510.9
12.5°	8267.3	7643.4	6105.8	4586.0	3146.5	2041.2	1390.5	1207.8	1105.3	1087.5	1074.1
15°	7964.3	7220.0	5374.9	3552.1	2036.8	1274.6	1083.0	1038.4	1011.7	1002.8	1007.2
17.5°	7759.3	6765.4	4626.1	2584.9	1341.5	1042.9	998.3	971.6	958.2	953.8	940.4
20°	7353.7	6382.1	3886.3	1809.5	1047.3	962.7	927.0	904.7	891.4	886.9	882.4
22.5°	7121.9	5896.3	3146.5	1261.3	931.5	873.5	846.8	829.0	806.7	793.3	788.9
25°	6890.2	5539.8	2486.9	980.5	846.8	806.7	766.6	744.3	708.6	690.8	686.3
27.5°	6618.3	5187.7	1916.4	851.2	762.1	722.0	681.9	646.2	601.7	583.8	574.9
30°	6462.3	4844.5	1444.0	762.1	699.7	646.2	597.2	552.6	503.6	472.4	463.5
32.5°	6382.1	4532.6	1083.0	695.3	632.9	574.9	512.5	459.0	414.5	387.7	383.3
35°	6284.1	4229.5	851.2	632.9	570.5	508.1	445.7	392.2	347.6	325.3	316.4
37.5°	6386.6	4051.2	708.6	583.8	521.4	450.1	383.3	329.8	294.1	271.9	267.4
40°	6667.4	3904.1	615.0	539.3	472.4	396.7	334.3	280.8	249.6	231.8	222.8
42.5°	7099.7	3904.1	557.1	494.7	427.9	347.6	285.2	245.1	213.9	196.1	191.6
45°	7884.1	4024.5	508.1	450.1	374.4	298.6	245.1	205.0	173.8	156.0	151.5
47.5°	8984.9	4300.8	468.0	410.0	334.3	263.0	213.9	173.8	142.6	124.8	120.3
50°	10464.5	4929.2	427.9	361.0	298.6	227.3	178.3	138.2	111.4	93.6	89.1
52.5°	12309.7	5820.6	387.7	334.3	254.0	191.6	142.6	111.4	84.7	71.3	66.9
55°	14261.7	6912.5	338.7	298.6	218.4	160.4	115.9	84.7	62.4	53.5	49.0
57.5°	16227.2	7754.8	298.6	258.5	178.3	129.2	93.6	66.9	44.6	35.7	31.2
60°	17270.1	7835.0	258.5	213.9	142.6	102.5	71.3	49.0	31.2	22.3	17.8
62.5°	17430.5	7121.9	222.8	173.8	115.9	80.2	49.0	35.7	17.8	8.9	8.9
65°	16606.0	5936.4	191.6	138.2	89.1	57.9	35.7	22.3	8.9	4.5	0.0
67°	15269.0	4973.8	164.9	115.9	71.3	44.6	26.7	13.4	4.5	0.0	0.0
67.5°	14752.0	4706.4	156.0	107.0	66.9	40.1	22.3	13.4	4.5	0.0	0.0
70°	11449.5	3360.4	115.9	75.8	49.0	31.2	17.8	8.9	0.0	0.0	0.0
72.5°	7015.0	1965.4	89.1	53.5	35.7	22.3	13.4	4.5	0.0	0.0	0.0
75°	2941.5	677.4	75.8	40.1	26.7	13.4	8.9	4.5	0.0	0.0	0.0
77.5°	766.6	254.0	53.5	26.7	17.8	13.4	8.9	4.5	0.0	0.0	0.0
80°	312.0	115.9	35.7	17.8	17.8	13.4	8.9	4.5	0.0	0.0	0.0
82.5°	205.0	53.5	22.3	17.8	13.4	8.9	4.5	0.0	0.0	0.0	0.0
85°	156.0	31.2	13.4	13.4	8.9	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	66.9	17.8	13.4	8.9	8.9	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)