

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: P481659

Luminaire Tested: **IFLD-L-SA8C-735-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481659
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

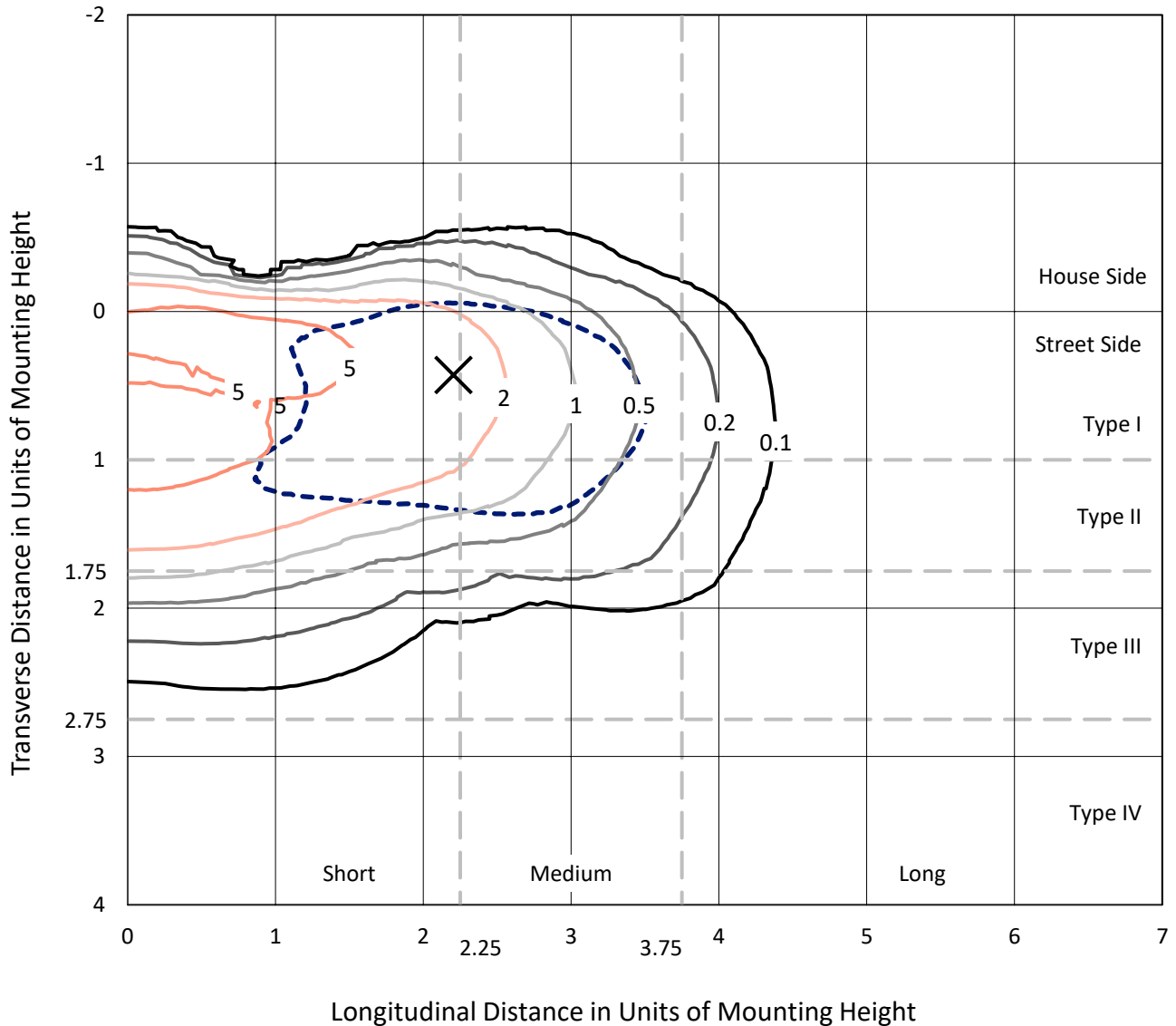
Lumens per Lamp: N/A
Luminaire Lumens: 35985.2 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

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: P481659
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

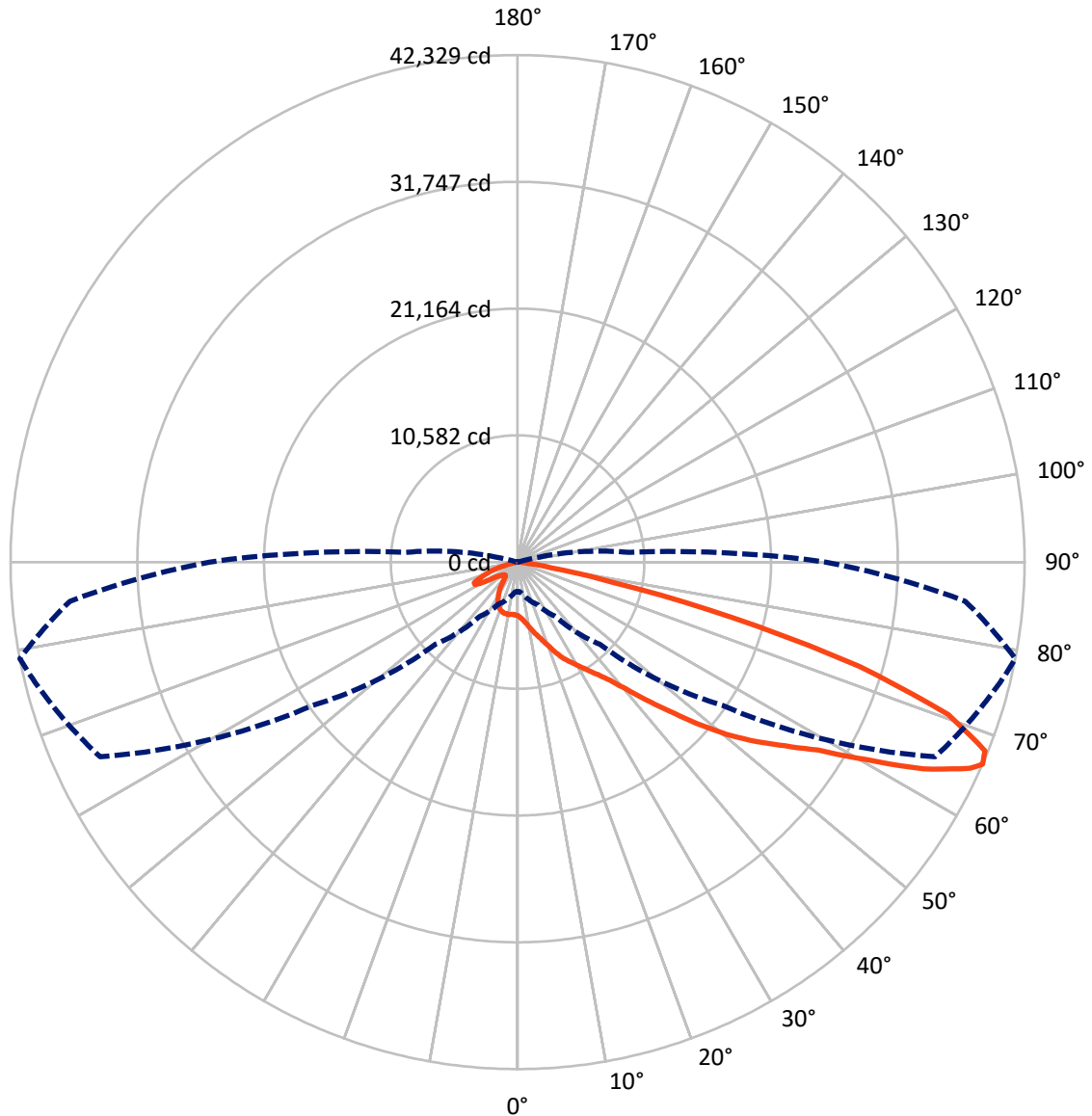
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

REPORT NUMBER: P481659
CATALOG NUMBER: IFLD-L-SA8C-735-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P481659
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2702.0	0.0	2702.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	33283.2	0.0	33283.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	35985.2	0.0	35985.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.4	1.2
10°-20°	1165.3	3.2
20°-30°	1935.8	5.4
30°-40°	3324.9	9.2
40°-50°	6023.5	16.7
50°-60°	9521.5	26.5
60°-70°	9688.8	26.9
70°-80°	3694.8	10.3
80°-90°	207.1	0.6
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°	35985.2	100.0
0°-180°	35985.2	100.0

Coefficient of Utilization



REPORT NUMBER: P481659

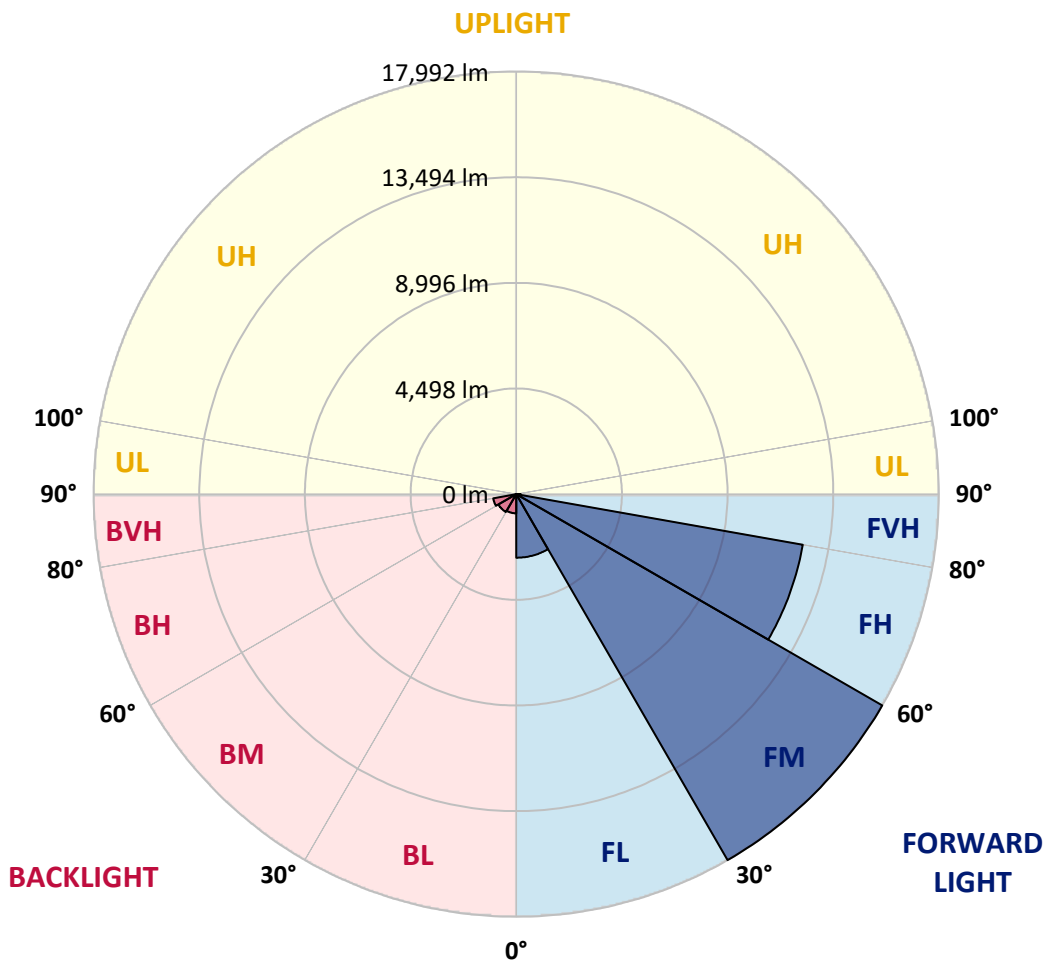
CATALOG NUMBER: IFLD-L-SA8C-735-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2707.3	7.5			
FM (30°-60°)	17991.8	50.0			
FH (60°-80°)	12387.6	34.4			G5
FVH (80°-90°)	196.6	0.5			G2/225
BL (0°-30°)	817.1	2.3	B2/1000		
BM (30°-60°)	878.2	2.4	B1/1000		
BH (60°-80°)	996.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	10.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





REPORT NUMBER: P481659

CATALOG NUMBER: IFLD-L-SA8C-735-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4477.0	4477.0	4477.0	4477.0	4477.0	4477.0	4477.0	4477.0	4477.0	4477.0	4477.0
2.5°	5070.6	5065.0	5042.9	5004.0	4954.1	4937.5	4865.3	4765.5	4710.0	4649.0	4621.2
5°	5420.1	5392.4	5458.9	5431.2	5442.3	5309.1	5220.4	5148.3	4937.5	4854.2	4721.1
7.5°	5497.8	5525.5	5520.0	5564.3	5608.7	5658.7	5597.6	5492.2	5281.4	5159.4	5015.1
10°	5497.8	5486.7	5531.1	5592.1	5719.7	5830.6	5997.1	5858.4	5697.5	5553.2	5292.5
12.5°	5397.9	5381.3	5425.7	5553.2	5780.7	6008.2	6191.2	6324.4	6096.9	5980.4	5642.0
15°	5092.8	5076.1	5259.2	5486.7	5786.3	6157.9	6540.7	6757.1	6601.8	6418.7	6041.4
17.5°	4715.5	4737.7	4931.9	5309.1	5786.3	6230.1	6718.3	7189.8	7167.6	6934.6	6540.7
20°	4587.9	4604.6	4798.8	5070.6	5614.3	6280.0	6995.6	7661.4	7794.5	7517.1	7001.2
22.5°	4832.0	4815.4	4832.0	4998.5	5497.8	6235.6	7178.7	8199.5	8438.1	8221.7	7605.9
25°	5664.2	5653.1	5514.4	5259.2	5431.2	6135.8	7273.0	8554.6	9103.8	8904.1	8094.1
27.5°	6884.7	6840.3	6624.0	6091.4	5741.9	6196.8	7428.4	8898.5	9686.3	9458.8	8532.4
30°	8194.0	8088.5	7805.6	7139.9	6546.3	6424.2	7517.1	9153.7	10335.4	10046.9	8915.2
32.5°	9098.2	9236.9	9148.2	8471.3	7561.5	6951.3	7661.4	9475.5	10934.5	10745.9	9569.8
35°	10496.2	10657.1	10285.4	9686.3	8770.9	7789.0	7966.5	9736.2	11855.4	11539.2	10180.0
37.5°	12260.4	12382.5	12116.2	10978.9	10013.6	8820.8	8593.4	10279.9	12648.8	12499.0	10962.3
40°	13148.0	13736.1	13358.9	12332.5	11295.1	10263.2	9630.8	10917.9	14030.1	13908.1	12044.1
42.5°	14374.1	14668.1	14473.9	13713.9	12632.1	11805.5	10912.3	12160.6	15705.5	15705.5	13508.6
45°	15672.3	15683.3	15672.3	15050.9	14091.2	13664.0	12643.2	13719.5	17508.5	17708.3	15261.7
47.5°	16737.4	17070.3	17042.5	16670.8	15927.4	15766.6	14374.1	15494.7	19772.0	20121.5	16970.4
50°	17286.6	17658.3	17769.3	17963.5	17930.2	18268.6	16265.9	17552.9	21724.8	22584.7	19167.3
52.5°	17136.8	17164.6	17846.9	18612.5	19833.0	20781.7	18546.0	19888.5	24010.4	24859.2	20864.9
55°	15910.8	15805.4	17209.0	18085.5	20609.7	22318.4	21702.6	22801.0	25791.3	27083.9	22618.0
57.5°	13220.2	13247.9	14546.1	16326.9	20032.7	22928.6	25075.6	26606.8	28287.7	29591.4	25081.1
60°	9126.0	9092.7	10546.2	12604.4	16643.1	21791.4	27017.3	31538.7	31627.4	33474.8	29502.7
62.5°	5131.6	5142.7	6246.7	8005.3	11644.6	17808.1	26923.0	36775.7	36398.5	38018.4	34528.9
65°	2907.0	2979.1	3739.1	4743.3	6973.5	11955.3	23156.1	38861.6	40076.6	41519.0	37580.1
66°	2457.6	2507.6	3156.6	3916.7	5564.3	9697.4	20842.7	38456.7	41230.5	42328.9	37519.1
67.5°	1902.9	1969.4	2513.1	3106.7	4083.1	6712.7	16776.2	36442.8	41441.3	42084.8	36459.5
70°	1303.7	1348.1	1764.2	2357.8	2790.5	3434.0	10030.2	30129.6	37602.3	38146.0	31688.5
72.5°	915.4	937.6	1237.1	1786.4	2147.0	1963.9	4976.3	21436.3	28775.9	29835.5	24648.4
75°	660.2	682.4	848.8	1281.5	1675.4	1287.1	2280.1	13691.7	17647.2	18479.4	14845.6
77.5°	477.1	504.8	577.0	826.6	1214.9	904.3	1120.6	7151.0	8321.5	8177.3	6385.4
80°	288.5	316.2	427.2	532.6	887.6	638.0	615.8	2984.7	2951.4	2801.6	2008.3
82.5°	133.1	155.3	227.5	360.6	621.3	443.8	294.0	1065.2	932.0	854.3	565.9
85°	38.8	49.9	133.1	271.8	316.2	216.4	177.5	366.1	382.8	327.3	188.6
87.5°	0.0	5.5	61.0	66.6	94.3	72.1	66.6	94.3	177.5	144.2	61.0
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: P481659
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4477.0	4477.0	4477.0	4477.0	4477.0	4477.0	4477.0	4477.0	4477.0	4477.0	4477.0
2.5°	4521.4	4482.5	4388.2	4244.0	4116.4	4049.8	3955.5	3872.3	3827.9	3822.4	3816.8
5°	4632.3	4526.9	4299.5	4038.7	3844.6	3633.7	3489.5	3384.1	3284.2	3189.9	3245.4
7.5°	4782.1	4615.7	4244.0	3905.6	3484.0	3212.1	2956.9	2807.1	2718.4	2635.2	2624.1
10°	5015.1	4804.3	4205.2	3594.9	3112.3	2712.8	2452.1	2235.7	2113.7	1969.4	2024.9
12.5°	5331.3	4954.1	4060.9	3312.0	2690.6	2269.0	1897.3	1547.8	1353.6	1203.9	1209.4
15°	5647.6	5153.8	3927.8	2968.0	2307.8	1753.1	1209.4	970.8	915.4	882.1	893.2
17.5°	5958.2	5314.7	3722.5	2618.5	1869.6	1115.1	882.1	832.2	804.4	771.1	771.1
20°	6335.5	5420.1	3467.3	2296.7	1287.1	826.6	754.5	721.2	676.8	632.4	638.0
22.5°	6701.6	5508.9	3173.3	1886.2	865.4	715.7	632.4	588.1	549.2	504.8	504.8
25°	7067.8	5536.6	2790.5	1353.6	699.0	571.4	493.7	432.7	393.9	355.1	360.6
27.5°	7317.4	5364.6	2429.9	865.4	560.3	432.7	344.0	294.0	260.7	221.9	221.9
30°	7461.7	5048.4	2041.6	610.2	421.6	294.0	205.3	155.3	122.0	94.3	88.8
32.5°	7605.9	4793.2	1603.3	466.0	277.4	155.3	77.7	27.7	0.0	0.0	0.0
35°	7894.4	4504.7	1076.3	260.7	94.3	5.5	0.0	0.0	0.0	0.0	0.0
37.5°	8077.5	4105.3	493.7	38.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8537.9	3905.6	122.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9286.8	3766.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10107.9	3711.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11200.8	3861.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12354.7	4266.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13619.6	4649.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14723.6	5109.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	16754.1	6196.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	20398.9	8332.6	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	24504.2	9919.3	61.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	26007.6	9880.5	105.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	25741.3	9336.8	105.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	24359.9	8293.8	94.3	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	20920.4	6851.4	94.3	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15949.6	5336.9	88.8	22.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	9625.3	2840.4	72.1	27.7	11.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3833.5	998.6	55.5	22.2	11.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	1037.4	299.6	33.3	22.2	16.6	5.5	0.0	0.0	0.0	0.0	0.0
82.5°	271.8	111.0	27.7	22.2	11.1	5.5	0.0	0.0	0.0	0.0	0.0
85°	105.4	44.4	22.2	16.6	16.6	11.1	5.5	0.0	0.0	0.0	0.0
87.5°	33.3	16.6	16.6	11.1	11.1	5.5	5.5	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)