

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: P481777

Luminaire Tested: **IFLD-L-SA8D-760-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481777
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-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

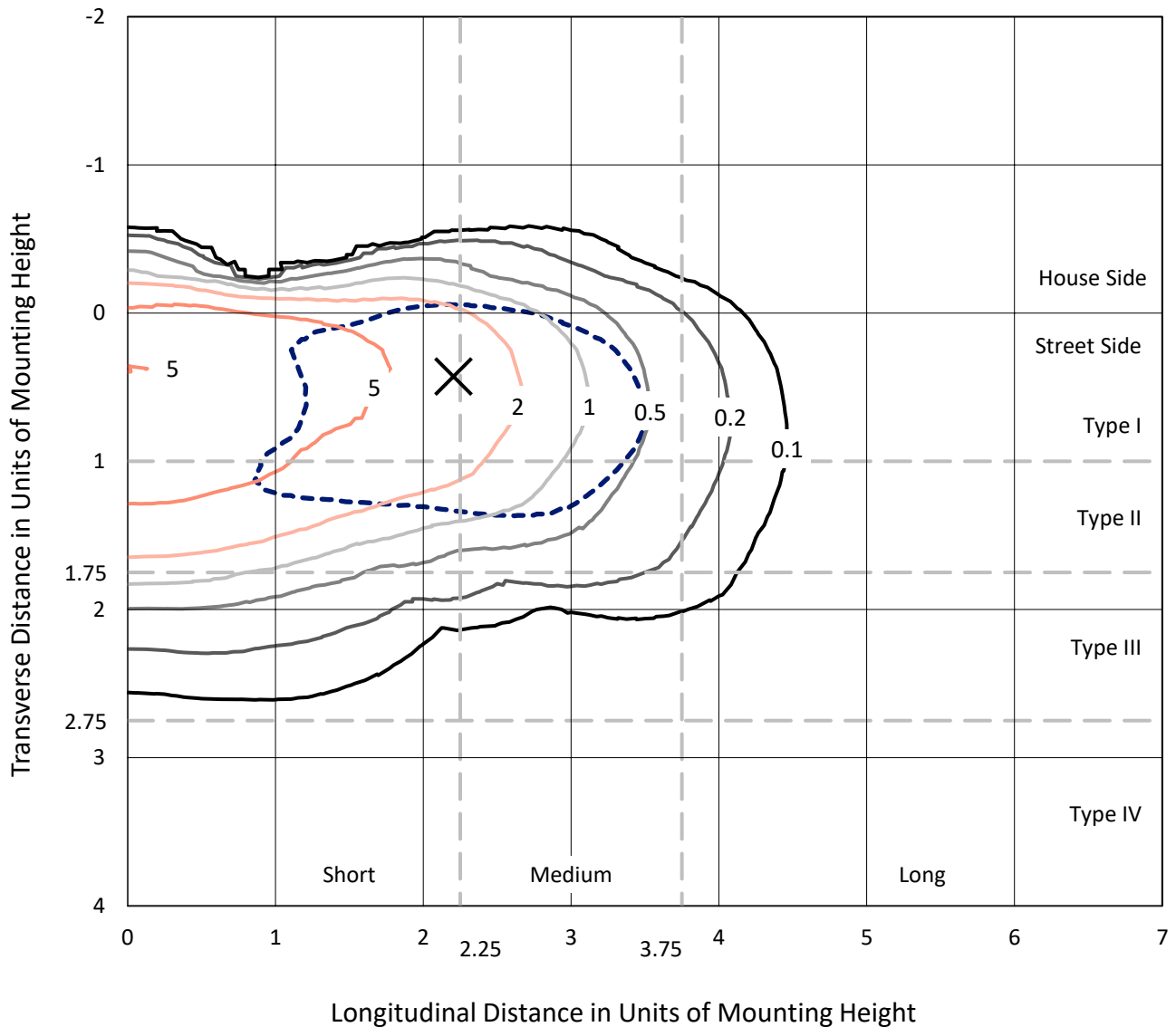
Lumens per Lamp: N/A
Luminaire Lumens: 41065.3 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

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

REPORT NUMBER: P481777
 CATALOG NUMBER: IFLD-L-SA8D-760-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

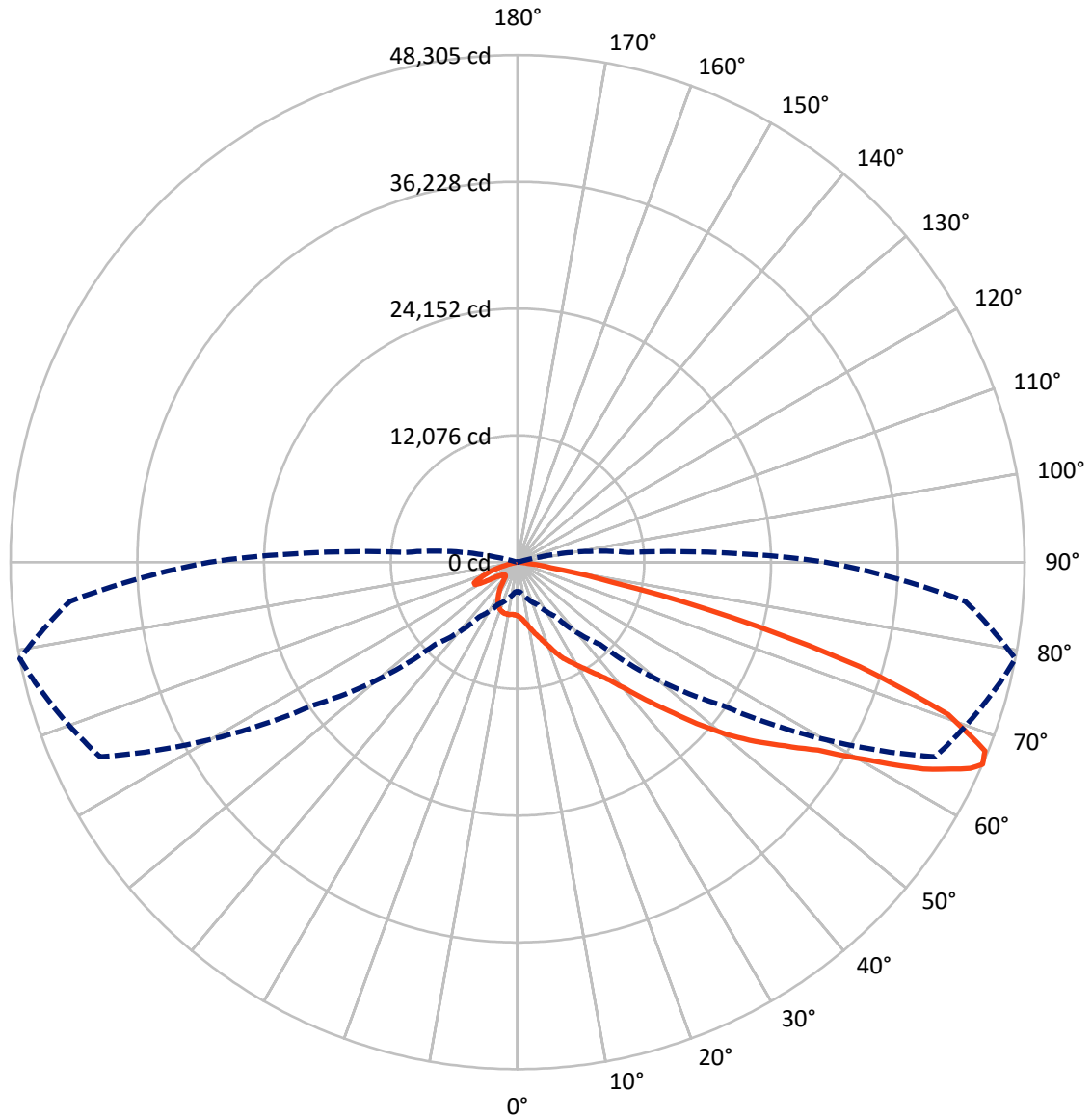
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

REPORT NUMBER: P481777
CATALOG NUMBER: IFLD-L-SA8D-760-U-T2-HSS

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3083.4	0.0	3083.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	37981.9	0.0	37981.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	41065.3	0.0	41065.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.2	1.2
10°-20°	1329.8	3.2
20°-30°	2209.1	5.4
30°-40°	3794.3	9.2
40°-50°	6873.9	16.7
50°-60°	10865.7	26.5
60°-70°	11056.6	26.9
70°-80°	4216.4	10.3
80°-90°	236.4	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°	41065.3	100.0
0°-180°	41065.3	100.0

Coefficient of Utilization

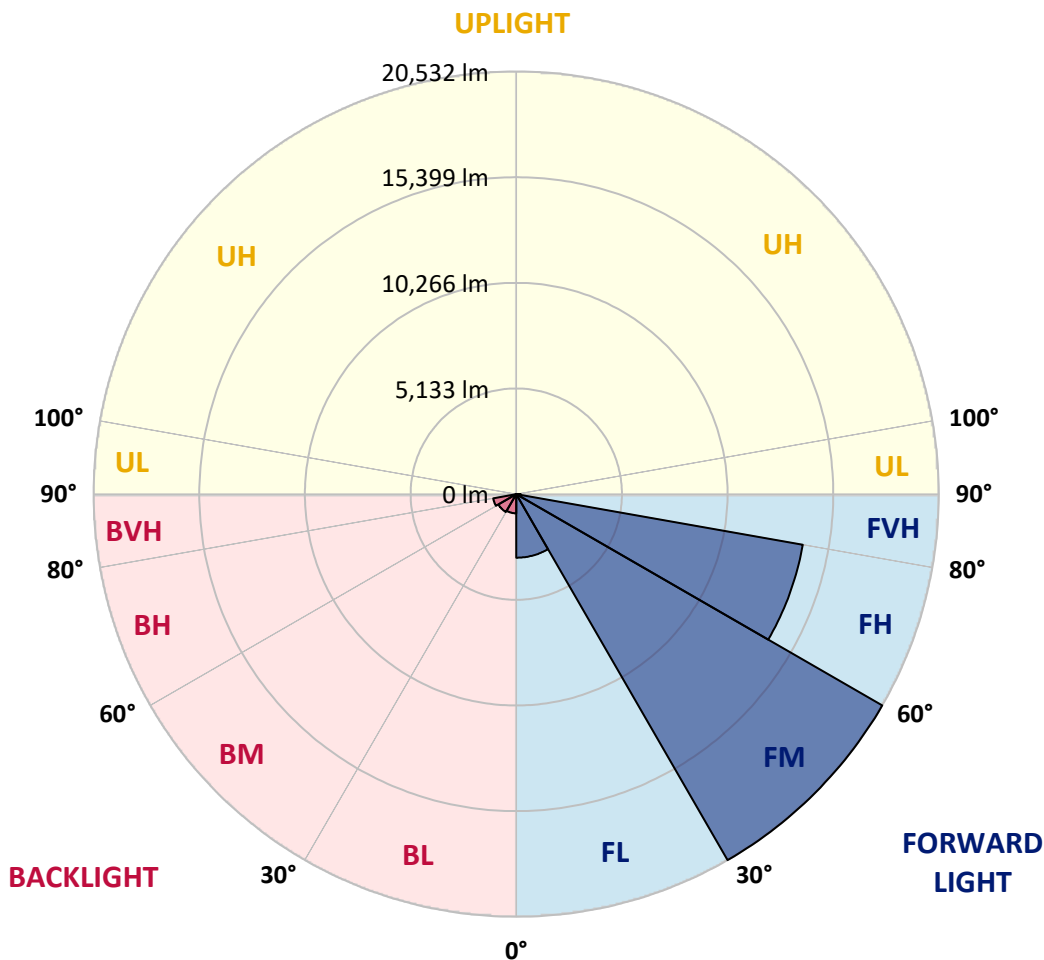


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3089.5	7.5			
FM (30°-60°)	20531.7	50.0			
FH (60°-80°)	14136.4	34.4			G5
FVH (80°-90°)	224.3	0.5			G2/225
BL (0°-30°)	932.5	2.3	B2/1000		
BM (30°-60°)	1002.2	2.4	B2/2500		
BH (60°-80°)	1136.7	2.8	B3/2500		G3/2500
BVH (80°-90°)	12.1	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 Short





REPORT NUMBER: P481777

CATALOG NUMBER: IFLD-L-SA8D-760-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5109.0	5109.0	5109.0	5109.0	5109.0	5109.0	5109.0	5109.0	5109.0	5109.0	5109.0
2.5°	5786.4	5780.1	5754.8	5710.5	5653.5	5634.5	5552.2	5438.2	5374.9	5305.3	5273.6
5°	6185.3	6153.6	6229.6	6197.9	6210.6	6058.7	5957.4	5875.1	5634.5	5539.5	5387.6
7.5°	6273.9	6305.6	6299.2	6349.9	6400.5	6457.5	6387.9	6267.6	6027.0	5887.7	5723.1
10°	6273.9	6261.2	6311.9	6381.5	6527.1	6653.8	6843.7	6685.4	6501.8	6337.2	6039.7
12.5°	6160.0	6141.0	6191.6	6337.2	6596.8	6856.3	7065.3	7217.2	6957.6	6824.7	6438.5
15°	5811.8	5792.8	6001.7	6261.2	6603.1	7027.3	7464.1	7711.0	7533.8	7324.8	6894.3
17.5°	5381.3	5406.6	5628.2	6058.7	6603.1	7109.6	7666.7	8204.8	8179.5	7913.6	7464.1
20°	5235.6	5254.6	5476.2	5786.4	6406.9	7166.6	7983.2	8743.0	8894.9	8578.3	7989.6
22.5°	5514.2	5495.2	5514.2	5704.1	6273.9	7115.9	8192.2	9357.0	9629.3	9382.4	8679.6
25°	6463.8	6451.2	6292.9	6001.7	6197.9	7002.0	8299.8	9762.2	10389.0	10161.1	9236.8
27.5°	7856.6	7806.0	7559.1	6951.3	6552.5	7071.6	8477.1	10154.7	11053.7	10794.2	9736.9
30°	9350.7	9230.4	8907.6	8147.8	7470.4	7331.2	8578.3	10446.0	11794.4	11465.2	10173.7
32.5°	10382.7	10540.9	10439.6	9667.3	8629.0	7932.6	8743.0	10813.2	12478.2	12262.9	10920.8
35°	11978.0	12161.6	11737.5	11053.7	10009.1	8888.6	9091.1	11110.7	13529.1	13168.2	11617.2
37.5°	13991.3	14130.5	13826.7	12528.8	11427.2	10066.1	9806.5	11731.1	14434.4	14263.5	12509.8
40°	15004.2	15675.3	15244.8	14073.6	12889.7	11712.1	10990.4	12459.2	16010.8	15871.5	13744.3
42.5°	16403.3	16738.9	16517.3	15649.9	14415.4	13472.1	12452.8	13877.3	17922.7	17922.7	15415.7
45°	17884.7	17897.4	17884.7	17175.7	16080.4	15593.0	14428.1	15656.3	19980.3	20208.2	17416.3
47.5°	19100.3	19480.1	19448.5	19024.3	18176.0	17992.4	16403.3	17682.2	22563.3	22962.1	19366.2
50°	19727.0	20151.2	20277.8	20499.4	20461.4	20847.6	18562.2	20030.9	24791.7	25773.0	21873.2
52.5°	19556.1	19587.8	20366.5	21240.1	22632.9	23715.5	21164.1	22696.2	27400.1	28368.7	23810.5
55°	18157.0	18036.7	19638.4	20638.7	23519.2	25469.1	24766.4	26019.9	29432.3	30907.4	25811.0
57.5°	15086.5	15118.2	16599.6	18631.8	22860.8	26165.5	28615.6	30362.9	32281.2	33768.9	28621.9
60°	10414.3	10376.3	12035.0	14383.8	18992.7	24867.7	30831.4	35991.1	36092.4	38200.6	33667.6
62.5°	5856.1	5868.7	7128.6	9135.5	13288.5	20322.1	30723.8	41967.4	41536.9	43385.5	39403.4
65°	3317.4	3399.7	4267.0	5412.9	7957.9	13643.1	26425.1	44347.8	45734.3	47380.3	42885.4
66°	2804.6	2861.6	3602.3	4469.6	6349.9	11066.4	23785.1	43885.7	47051.1	48304.6	42815.8
67.5°	2171.5	2247.5	2867.9	3545.3	4659.5	7660.4	19144.6	41587.6	47291.7	48026.1	41606.6
70°	1487.8	1538.4	2013.2	2690.6	3184.4	3918.8	11446.2	34383.0	42910.7	43531.2	36162.0
72.5°	1044.6	1069.9	1411.8	2038.5	2450.1	2241.1	5678.8	24462.5	32838.3	34047.5	28128.1
75°	753.4	778.7	968.6	1462.4	1911.9	1468.8	2602.0	15624.6	20138.5	21088.2	16941.4
77.5°	544.5	576.1	658.4	943.3	1386.5	1031.9	1278.8	8160.5	9496.3	9331.7	7286.8
80°	329.2	360.9	487.5	607.8	1012.9	728.1	702.7	3406.0	3368.0	3197.1	2291.8
82.5°	151.9	177.3	259.6	411.5	709.1	506.5	335.5	1215.5	1063.6	975.0	645.8
85°	44.3	57.0	151.9	310.2	360.9	246.9	202.6	417.8	436.8	373.5	215.3
87.5°	0.0	6.3	69.6	76.0	107.6	82.3	76.0	107.6	202.6	164.6	69.6
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°	5109.0	5109.0	5109.0	5109.0	5109.0	5109.0	5109.0	5109.0	5109.0	5109.0	5109.0
2.5°	5159.7	5115.4	5007.7	4843.1	4697.5	4621.5	4513.9	4419.0	4368.3	4362.0	4355.6
5°	5286.3	5166.0	4906.4	4608.9	4387.3	4146.7	3982.1	3861.8	3747.9	3640.3	3703.6
7.5°	5457.2	5267.3	4843.1	4456.9	3975.8	3665.6	3374.4	3203.4	3102.1	3007.2	2994.5
10°	5723.1	5482.5	4798.8	4102.4	3551.6	3095.8	2798.3	2551.3	2412.1	2247.5	2310.8
12.5°	6084.0	5653.5	4634.2	3779.5	3070.5	2589.3	2165.2	1766.3	1544.7	1373.8	1380.1
15°	6444.8	5881.4	4482.3	3387.0	2633.6	2000.6	1380.1	1107.9	1044.6	1006.6	1019.3
17.5°	6799.4	6065.0	4248.0	2988.2	2133.5	1272.5	1006.6	949.6	918.0	880.0	880.0
20°	7229.9	6185.3	3956.8	2621.0	1468.8	943.3	861.0	823.0	772.4	721.7	728.1
22.5°	7647.7	6286.6	3621.3	2152.5	987.6	816.7	721.7	671.1	626.8	576.1	576.1
25°	8065.5	6318.2	3184.4	1544.7	797.7	652.1	563.4	493.8	449.5	405.2	411.5
27.5°	8350.4	6122.0	2772.9	987.6	639.4	493.8	392.5	335.5	297.6	253.2	253.2
30°	8515.0	5761.1	2329.8	696.4	481.1	335.5	234.2	177.3	139.3	107.6	101.3
32.5°	8679.6	5469.9	1829.6	531.8	316.5	177.3	88.6	31.7	0.0	0.0	0.0
35°	9008.8	5140.7	1228.2	297.6	107.6	6.3	0.0	0.0	0.0	0.0	0.0
37.5°	9217.8	4684.9	563.4	44.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	9743.2	4456.9	139.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	10597.9	4298.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	11534.9	4235.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	12782.1	4406.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	14098.9	4868.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	15542.3	5305.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	16802.2	5830.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	19119.3	7071.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	23278.7	9509.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	27963.5	11319.6	69.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	29679.2	11275.3	120.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	29375.3	10654.9	120.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	27798.9	9464.7	107.6	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	23873.8	7818.6	107.6	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	18201.3	6090.3	101.3	25.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	10984.1	3241.4	82.3	31.7	12.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4374.6	1139.6	63.3	25.3	12.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	1183.9	341.9	38.0	25.3	19.0	6.3	0.0	0.0	0.0	0.0	0.0
82.5°	310.2	126.6	31.7	25.3	12.7	6.3	0.0	0.0	0.0	0.0	0.0
85°	120.3	50.6	25.3	19.0	19.0	12.7	6.3	0.0	0.0	0.0	0.0
87.5°	38.0	19.0	19.0	12.7	12.7	6.3	6.3	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)