

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: P483174

Luminaire Tested: **IFLD-L-SA7B-730-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483174
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

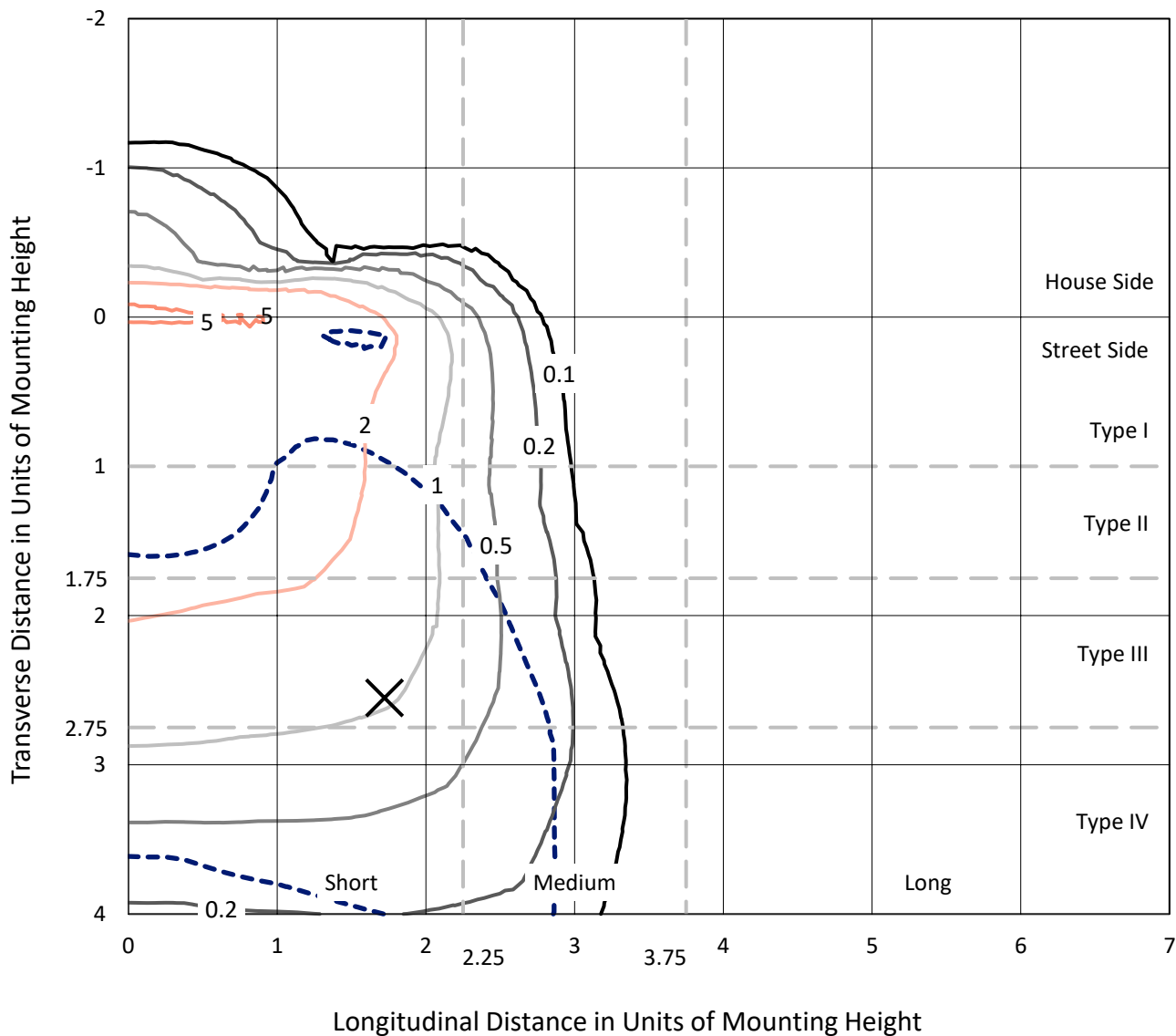
Lumens per Lamp: N/A
Luminaire Lumens: 23448.5 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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: P483174
 CATALOG NUMBER: IFLD-L-SA7B-730-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

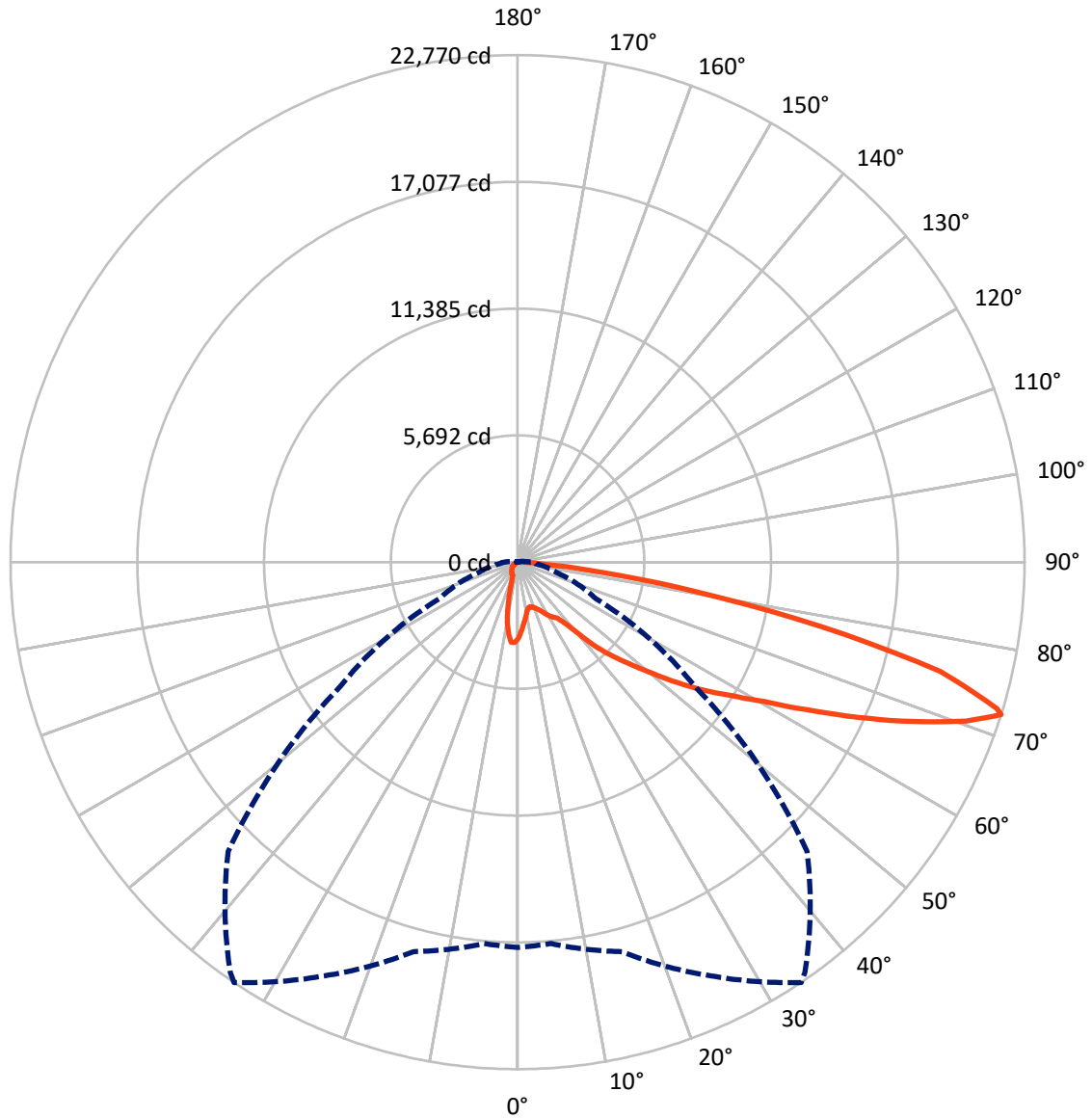
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P483174
CATALOG NUMBER: IFLD-L-SA7B-730-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P483174
 CATALOG NUMBER: IFLD-L-SA7B-730-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2400.6	0.0	2400.6
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	21048.0	0.0	21048.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	23448.5	0.0	23448.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.8	1.3
10°-20°	674.2	2.9
20°-30°	1017.7	4.3
30°-40°	1651.5	7.0
40°-50°	3105.5	13.2
50°-60°	5077.5	21.7
60°-70°	6749.9	28.8
70°-80°	4520.3	19.3
80°-90°	354.2	1.5
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°	23448.5	100.0
0°-180°	23448.5	100.0



REPORT NUMBER: P483174

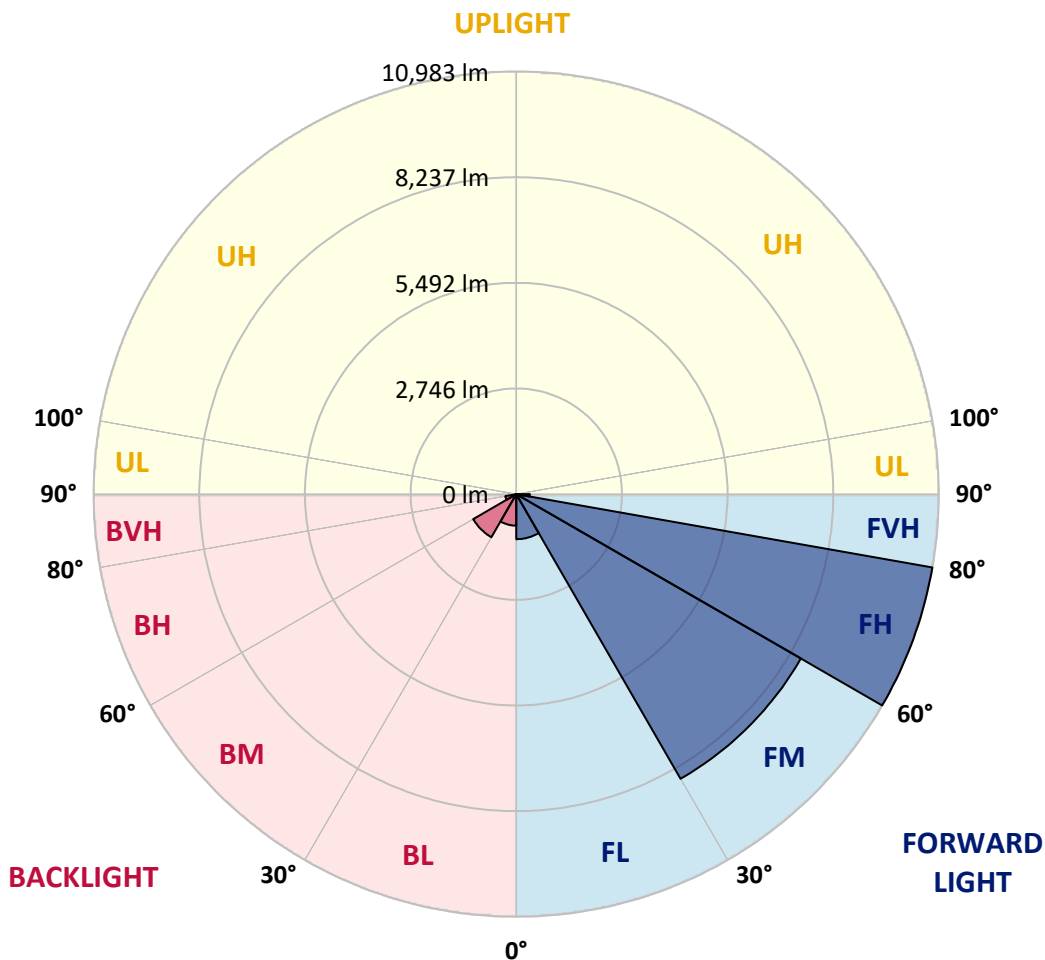
CATALOG NUMBER: IFLD-L-SA7B-730-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1170.6	5.0			
FM (30°-60°)	8542.3	36.4			
FH (60°-80°)	10983.1	46.8			G4/12000
FVH (80°-90°)	352.0	1.5			G3/500
BL (0°-30°)	819.1	3.5	B2/1000		
BM (30°-60°)	1292.2	5.5	B2/2500		
BH (60°-80°)	287.1	1.2	B1/500		G1/500
BVH (80°-90°)	2.2	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 IV Short





REPORT NUMBER: P483174

CATALOG NUMBER: IFLD-L-SA7B-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5
2.5°	3033.9	3027.1	3047.5	3081.4	3115.3	3101.7	3166.1	3233.9	3281.4	3345.8	3423.8
5°	2650.9	2667.8	2688.2	2756.0	2800.0	2810.2	2928.8	3017.0	3162.7	3311.9	3450.9
7.5°	2301.7	2322.1	2362.7	2437.3	2528.8	2552.6	2671.2	2847.5	3037.3	3233.9	3461.0
10°	2047.5	2067.8	2111.9	2159.3	2281.4	2281.4	2444.1	2688.2	2935.6	3166.1	3464.4
12.5°	1993.2	2003.4	2000.0	2037.3	2115.3	2132.2	2291.5	2559.3	2847.5	3142.4	3518.7
15°	2057.6	2064.4	2030.5	2010.2	2078.0	2094.9	2244.1	2481.4	2789.9	3156.0	3606.8
17.5°	2186.5	2162.7	2094.9	2064.4	2122.1	2132.2	2271.2	2478.0	2783.1	3193.3	3708.5
20°	2261.0	2288.2	2169.5	2111.9	2193.2	2206.8	2356.0	2532.2	2817.0	3257.7	3850.9
22.5°	2393.2	2406.8	2247.5	2210.2	2288.2	2288.2	2457.7	2640.7	2898.3	3362.7	4020.4
25°	2579.7	2562.7	2376.3	2339.0	2413.6	2444.1	2613.6	2813.6	3023.8	3461.0	4176.3
27.5°	2725.4	2735.6	2583.1	2484.8	2610.2	2630.5	2813.6	3000.0	3118.7	3542.4	4366.1
30°	2942.4	2922.1	2759.3	2647.5	2803.4	2806.8	2983.1	3176.3	3301.7	3688.2	4650.9
32.5°	3200.0	3159.4	2972.9	2813.6	2939.0	2969.5	3149.2	3430.5	3586.5	3962.7	5091.6
35°	3745.8	3647.5	3342.4	3094.9	3105.1	3118.7	3396.6	3800.0	3979.7	4311.9	5681.4
37.5°	4542.4	4501.7	4156.0	3684.8	3505.1	3464.4	3776.3	4288.2	4511.9	4772.9	6447.5
40°	5332.3	5274.6	4952.6	4596.7	4271.2	4189.9	4345.8	4935.6	5139.0	5413.6	7234.0
42.5°	6210.2	6108.5	5728.9	5440.7	5237.3	5149.2	5088.2	5749.2	5979.7	6166.2	8003.5
45°	7098.4	6932.3	6383.1	6162.8	6054.3	6006.8	6000.1	6772.9	6911.9	6949.2	8857.7
47.5°	7878.0	7698.4	7200.1	6952.6	6871.3	6857.7	7237.4	7952.6	7844.1	7745.8	9810.3
50°	8478.0	8362.8	8003.5	7915.3	7854.3	7830.6	8718.7	9166.2	8664.5	8491.6	10647.6
52.5°	9406.9	9149.2	8742.5	8773.0	8986.5	8989.9	10220.4	10318.7	9345.9	9003.5	11437.4
55°	10149.2	9979.8	9647.5	9603.5	10166.2	10227.2	11566.2	11193.3	9725.5	9491.6	11728.9
57.5°	11023.8	10945.9	10705.2	10712.0	11301.8	11430.6	12762.8	11932.3	10040.8	9806.9	11773.0
60°	12288.3	12064.5	11939.1	11996.7	12691.6	12817.1	13922.2	12464.5	10193.3	10013.7	11664.5
62.5°	13684.9	13423.9	13288.3	13583.2	14596.7	14617.1	14803.5	12935.7	10098.4	10067.9	10966.2
65°	15366.2	15108.6	15000.1	15593.4	16796.8	16722.2	16040.8	13135.7	9796.7	9522.1	9132.3
67.5°	17040.8	16884.9	16661.2	17606.9	19105.3	19105.3	17325.6	13061.1	9006.9	7644.1	5972.9
70°	17834.1	17942.5	18298.5	19783.2	21373.1	21210.4	18593.4	12203.5	6705.1	4105.1	2349.2
72°	17305.2	17193.4	18112.0	20495.1	22769.7	22501.9	18379.8	9701.8	3874.6	1800.0	817.0
72.5°	16396.8	16501.9	17766.3	20396.8	22508.7	22729.0	17857.8	8949.2	3186.5	1433.9	617.0
75°	10054.3	10234.0	13261.1	17318.8	19613.7	19366.3	13813.7	4264.4	1223.7	610.2	220.3
77.5°	3671.2	3820.4	6434.0	10898.4	13949.3	13793.4	7993.3	1515.3	664.4	454.2	111.9
80°	955.9	1033.9	2186.5	5027.2	8203.5	8213.6	3345.8	606.8	450.9	372.9	67.8
82.5°	189.8	210.2	671.2	1956.0	3833.9	3783.1	1057.6	325.4	339.0	305.1	47.5
85°	23.7	30.5	142.4	664.4	1240.7	1111.9	261.0	162.7	250.8	237.3	30.5
87.5°	3.4	3.4	33.9	152.5	261.0	254.2	54.2	50.8	111.9	145.8	16.9
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: P483174

CATALOG NUMBER: IFLD-L-SA7B-730-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5
2.5°	3467.8	3481.4	3528.8	3569.5	3617.0	3630.5	3610.2	3644.1	3596.6	3623.8	3630.5
5°	3474.6	3552.6	3640.7	3698.3	3684.8	3650.9	3623.8	3532.2	3467.8	3444.1	3494.9
7.5°	3522.1	3610.2	3705.1	3705.1	3630.5	3454.3	3284.8	3122.1	2986.5	2918.7	2976.3
10°	3583.1	3674.6	3772.9	3644.1	3366.1	3044.1	2803.4	2498.3	2291.5	2183.1	2193.2
12.5°	3664.4	3793.3	3827.2	3528.8	3067.8	2589.9	2152.6	1728.8	1532.2	1376.3	1379.7
15°	3769.5	3895.0	3793.3	3278.0	2688.2	1983.1	1457.6	1054.2	898.3	817.0	817.0
17.5°	3908.5	4003.4	3783.1	3047.5	2176.3	1355.9	894.9	711.9	678.0	664.4	664.4
20°	4071.2	4142.4	3684.8	2688.2	1617.0	871.2	657.6	637.3	640.7	633.9	633.9
22.5°	4254.3	4278.0	3572.9	2271.2	1094.9	644.1	613.6	617.0	620.3	613.6	617.0
25°	4447.5	4383.1	3410.2	1783.1	728.8	586.4	593.2	600.0	603.4	606.8	606.8
27.5°	4664.5	4535.6	3183.1	1305.1	569.5	552.5	572.9	593.2	596.6	596.6	593.2
30°	4983.1	4769.5	2962.7	884.8	501.7	515.3	549.2	572.9	589.8	589.8	586.4
32.5°	5386.5	5013.6	2654.3	603.4	464.4	471.2	498.3	545.8	583.1	586.4	576.3
35°	5945.8	5308.5	2332.2	481.4	437.3	440.7	457.6	494.9	559.3	579.7	576.3
37.5°	6535.7	5644.1	1932.2	433.9	417.0	413.6	423.7	454.2	511.9	562.7	566.1
40°	7162.8	5996.7	1511.9	410.2	400.0	393.2	396.6	410.2	454.2	518.6	532.2
42.5°	7752.6	6315.3	1135.6	386.4	383.1	376.3	376.3	379.7	403.4	447.5	454.2
45°	8389.9	6576.3	864.4	369.5	359.3	362.7	349.2	342.4	359.3	362.7	359.3
47.5°	8986.5	6837.4	691.5	349.2	339.0	339.0	322.0	308.5	308.5	278.0	274.6
50°	9545.9	6979.7	552.5	322.0	318.6	315.3	291.5	267.8	247.5	210.2	203.4
52.5°	10010.3	6972.9	427.1	288.1	298.3	288.1	250.8	217.0	186.4	152.5	145.8
55°	10149.2	6647.5	322.0	237.3	254.2	240.7	200.0	169.5	135.6	108.5	105.1
57.5°	10030.6	6152.6	244.1	183.1	196.6	183.1	152.5	125.4	94.9	74.6	67.8
60°	9634.0	5572.9	189.8	142.4	149.2	139.0	115.3	94.9	67.8	47.5	40.7
62.5°	8881.4	4847.5	145.8	111.9	108.5	108.5	88.1	71.2	47.5	27.1	23.7
65°	7288.2	3779.7	111.9	78.0	78.0	78.0	67.8	50.8	30.5	13.6	6.8
67.5°	4576.3	2200.0	91.5	61.0	57.6	57.6	47.5	33.9	16.9	3.4	0.0
70°	1722.1	806.8	71.2	47.5	44.1	44.1	33.9	20.3	10.2	0.0	0.0
72°	593.2	308.5	57.6	33.9	33.9	30.5	23.7	16.9	6.8	0.0	0.0
72.5°	488.1	247.5	54.2	33.9	30.5	30.5	23.7	16.9	6.8	0.0	0.0
75°	176.3	101.7	37.3	23.7	20.3	20.3	16.9	10.2	3.4	0.0	0.0
77.5°	88.1	64.4	30.5	20.3	16.9	10.2	10.2	6.8	3.4	0.0	0.0
80°	54.2	40.7	16.9	13.6	10.2	6.8	3.4	3.4	0.0	0.0	0.0
82.5°	37.3	23.7	10.2	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0
85°	23.7	10.2	6.8	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	6.8	3.4	0.0	0.0	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)