

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: P483564

Luminaire Tested: **IFLD-L-SA7B-730-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483564  
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-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W 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: 23926.8 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

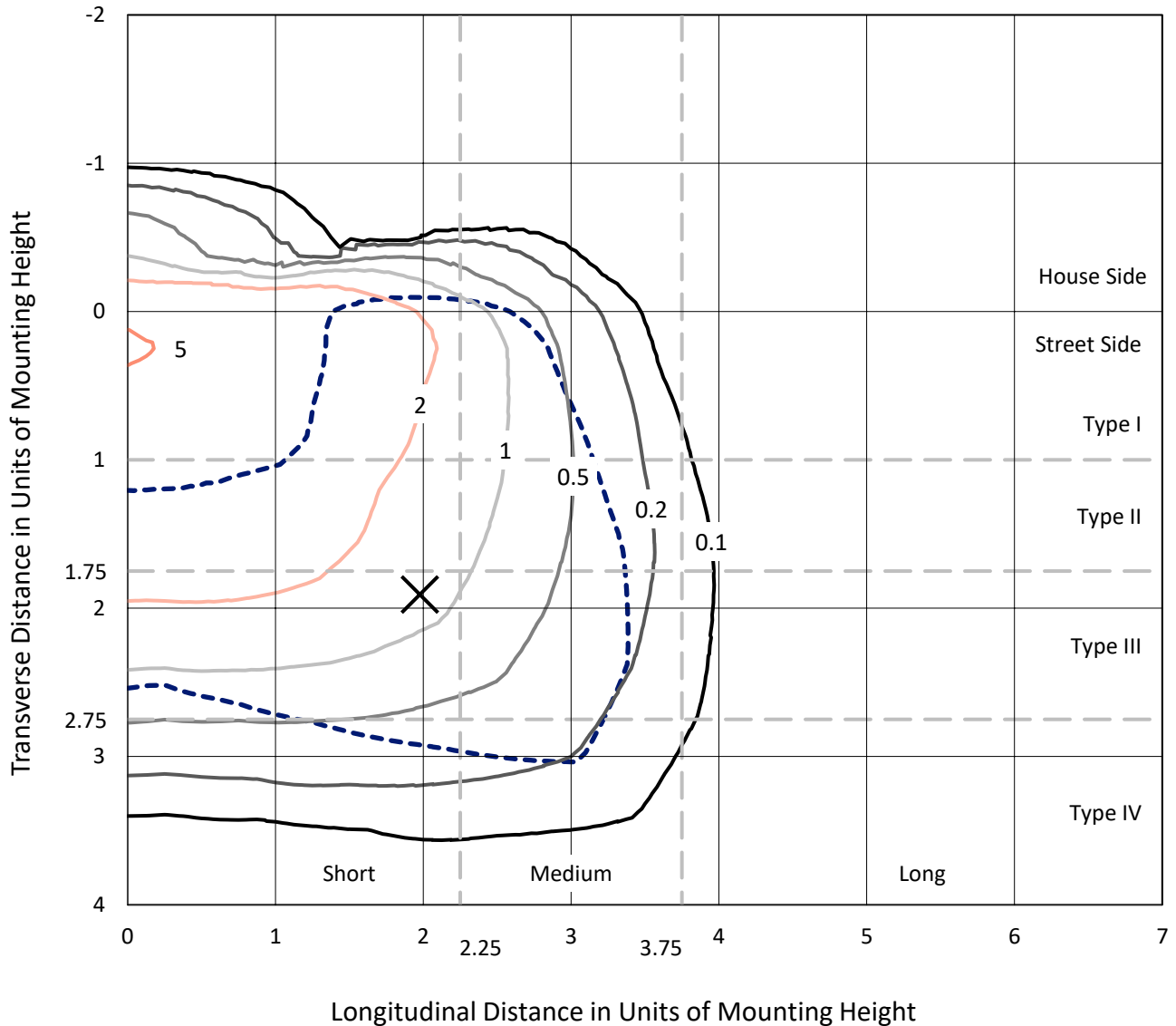
Input Watts (W): 281  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

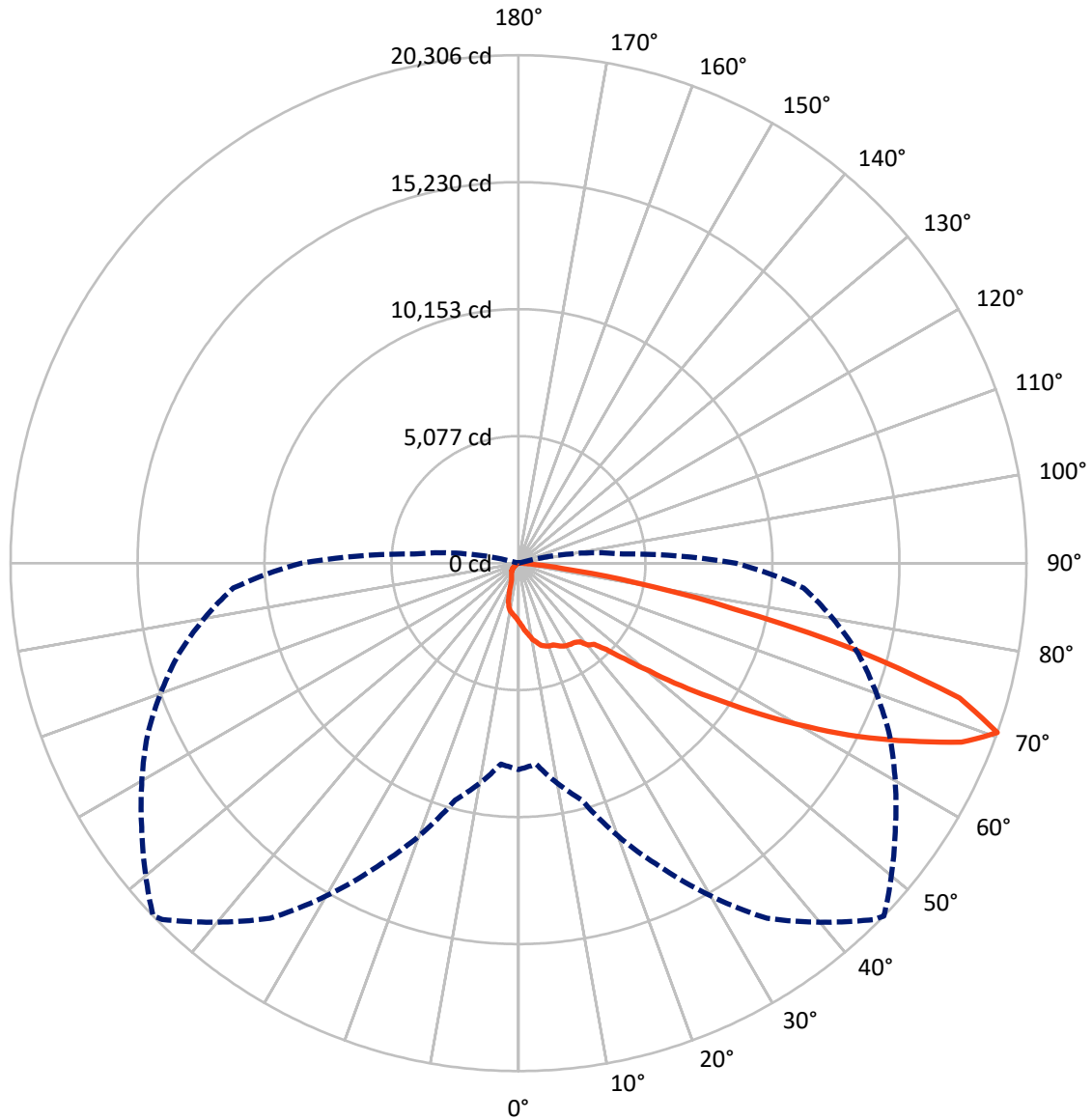
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P483564  
CATALOG NUMBER: IFLD-L-SA7B-730-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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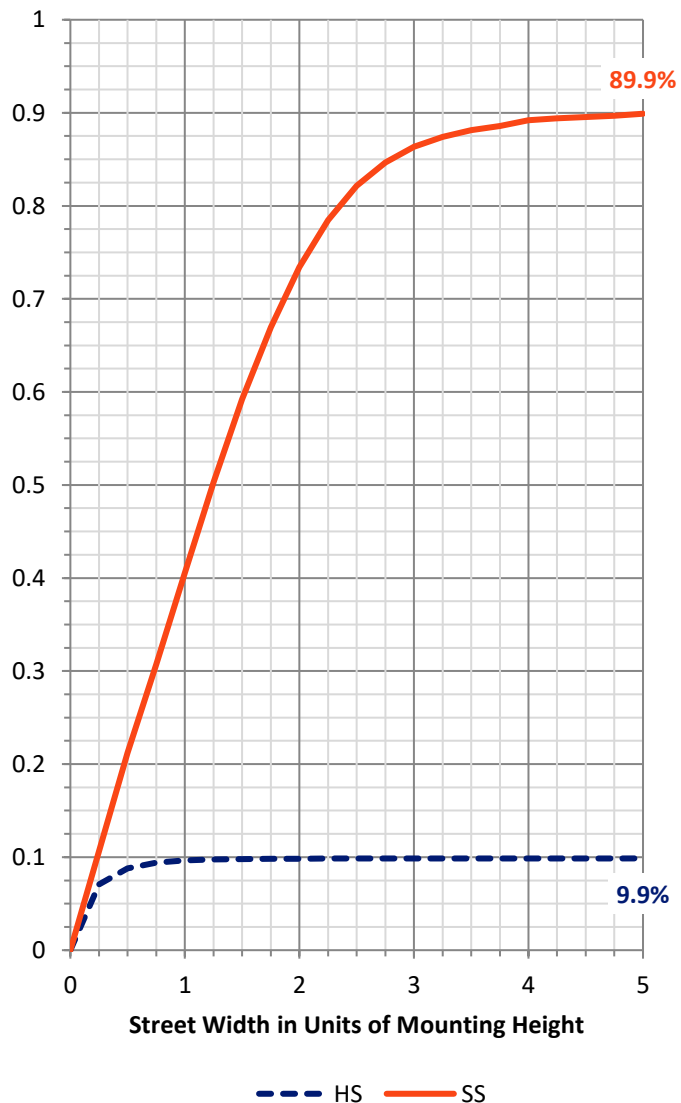
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2380.8	0.0	2380.8
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	21546.0	0.0	21546.0
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	23926.8	0.0	23926.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.2	1.0
10°-20°	707.3	3.0
20°-30°	1132.9	4.7
30°-40°	1617.1	6.8
40°-50°	2792.3	11.7
50°-60°	5346.1	22.3
60°-70°	7916.7	33.1
70°-80°	3921.1	16.4
80°-90°	259.1	1.1
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°	23926.8	100.0
0°-180°	23926.8	100.0

**Coefficient of Utilization**



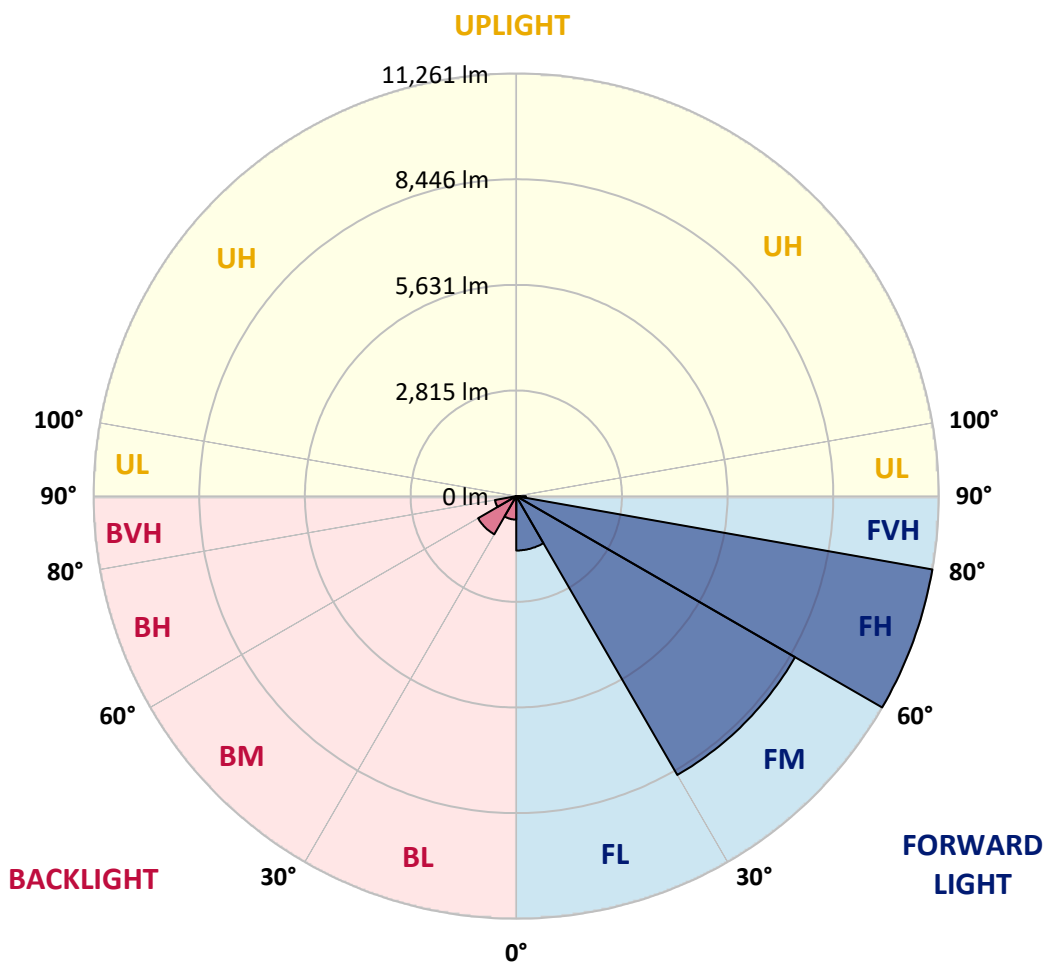
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 CATALOG NUMBER: IFLD-L-SA7B-730-U-T4W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1448.9	6.1			
FM (30°-60°)	8580.1	35.9			
FH (60°-80°)	11261.2	47.1			G4/12000
FVH (80°-90°)	255.8	1.1			G3/500
BL (0°-30°)	625.5	2.6	B2/1000		
BM (30°-60°)	1175.4	4.9	B2/2500		
BH (60°-80°)	576.6	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9
2.5°	2620.9	2603.7	2576.2	2565.8	2538.3	2524.5	2503.9	2493.5	2455.6	2417.7	2393.6
5°	2941.2	2899.9	2913.7	2872.4	2782.8	2710.5	2707.1	2627.8	2541.7	2472.9	2379.9
7.5°	3265.0	3230.6	3178.9	3120.3	3020.5	2913.7	2882.7	2806.9	2686.4	2565.8	2441.9
10°	3509.5	3485.4	3440.6	3358.0	3220.2	3099.7	3103.1	2975.7	2848.3	2710.5	2541.7
12.5°	3661.1	3671.4	3606.0	3523.3	3402.8	3251.2	3247.8	3161.7	3017.0	2872.4	2672.6
15°	3812.6	3850.5	3750.6	3654.2	3499.2	3389.0	3409.6	3306.3	3165.1	2999.8	2779.4
17.5°	3836.7	3847.0	3826.4	3685.2	3571.5	3478.5	3482.0	3413.1	3306.3	3127.2	2937.8
20°	3795.4	3788.5	3764.4	3661.1	3585.3	3530.2	3533.6	3516.4	3457.9	3313.2	3054.9
22.5°	3674.8	3674.8	3643.8	3575.0	3540.5	3592.2	3550.9	3616.3	3554.3	3468.2	3254.7
25°	3578.4	3616.3	3599.1	3554.3	3568.1	3637.0	3657.6	3719.6	3709.3	3602.5	3392.4
27.5°	3681.7	3637.0	3647.3	3595.6	3647.3	3750.6	3760.9	3805.7	3802.3	3716.2	3516.4
30°	3750.6	3791.9	3712.7	3599.1	3654.2	3829.8	3822.9	3881.5	3909.0	3805.7	3633.5
32.5°	3971.0	3936.6	3871.2	3719.6	3726.5	3826.4	3857.4	3933.1	3950.4	3888.4	3747.2
35°	4422.2	4370.5	4084.7	3857.4	3822.9	3871.2	3891.8	4039.9	4070.9	4002.0	3867.7
37.5°	5117.9	5000.8	4656.4	4153.6	3998.6	3988.3	3988.3	4184.6	4301.7	4143.2	4046.8
40°	6113.3	5947.9	5576.0	4701.2	4229.3	4270.7	4312.0	4418.8	4405.0	4301.7	4281.0
42.5°	7380.7	7253.2	6850.3	5620.7	4670.2	4463.5	4429.1	4573.7	4790.7	4749.4	4735.6
45°	8438.0	8444.9	8186.6	6881.3	5431.3	4907.8	4931.9	5042.1	5407.2	5376.2	5372.8
47.5°	9209.5	9113.1	9075.2	8097.0	6540.3	5751.6	5717.2	5793.0	6268.2	6464.5	6554.1
50°	9912.1	9846.6	9757.1	9278.4	7873.2	6809.0	6774.5	6781.4	7508.1	7783.6	8004.1
52.5°	10783.4	10866.1	10569.9	10277.2	9598.7	8183.1	8145.3	8010.9	8913.3	9292.1	9553.9
55°	11858.0	11703.0	11368.9	11520.5	11248.4	9667.5	9598.7	9440.2	10514.8	10673.2	10948.7
57.5°	12095.6	11978.5	12322.9	12860.2	13122.0	11410.3	11382.7	11096.8	11861.4	11716.8	12495.1
60°	12688.0	12719.0	13197.7	14265.4	14720.0	13421.6	13287.3	12784.4	13166.7	13194.3	14024.3
62.5°	13297.6	13225.3	14296.4	15322.7	16021.9	15326.2	15281.4	14282.6	14716.6	14365.3	15463.9
65°	12849.9	12960.1	14492.7	16211.3	17709.5	17189.4	17151.5	15725.7	15963.3	15525.9	16049.4
67.5°	11258.7	11034.9	13180.5	15804.9	18577.4	19142.2	19100.9	17299.6	16665.9	15519.1	14833.7
70°	8252.0	8059.2	9808.8	13383.7	17334.1	20141.0	20306.3	18394.9	16380.1	14072.5	11444.7
72.5°	4043.4	4046.8	5496.8	9075.2	13714.4	18357.0	18439.6	16865.7	14072.5	10373.6	6481.8
75°	1195.1	1208.9	2035.5	4449.8	8865.1	13941.7	14034.7	12801.7	9753.7	5359.0	2211.1
77.5°	437.4	437.4	675.0	1670.4	4422.2	8799.6	8792.8	7859.4	4938.8	1815.0	516.6
80°	227.3	237.6	351.3	681.9	1914.9	4584.1	4756.3	3847.0	1877.0	764.6	151.5
82.5°	93.0	103.3	192.9	351.3	919.6	1608.4	1759.9	1508.5	816.2	533.8	68.9
85°	27.6	31.0	93.0	196.3	361.6	403.0	447.7	506.3	513.2	413.3	31.0
87.5°	3.4	3.4	37.9	65.4	79.2	86.1	99.9	99.9	261.8	289.3	17.2
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°	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9
2.5°	2366.1	2348.9	2321.3	2259.3	2245.5	2200.8	2197.3	2156.0	2169.8	2142.2	2131.9
5°	2348.9	2311.0	2235.2	2187.0	2138.8	2107.8	2087.1	2069.9	2066.5	2052.7	2045.8
7.5°	2379.9	2328.2	2211.1	2135.3	2052.7	2025.1	1980.3	1976.9	1952.8	1928.7	1928.7
10°	2483.2	2390.2	2262.8	2135.3	2028.6	1939.0	1835.7	1759.9	1732.4	1670.4	1677.3
12.5°	2565.8	2483.2	2297.2	2166.3	2004.5	1801.3	1573.9	1398.3	1315.6	1236.4	1267.4
15°	2682.9	2562.4	2362.6	2173.2	1911.5	1560.2	1188.2	991.9	916.1	898.9	895.5
17.5°	2810.4	2682.9	2445.3	2156.0	1722.0	1205.4	874.8	761.1	774.9	795.6	792.1
20°	2951.6	2796.6	2507.3	2097.4	1422.4	874.8	716.4	712.9	733.6	764.6	771.5
22.5°	3099.7	2965.4	2583.1	1921.8	1060.8	702.6	688.8	688.8	702.6	740.5	733.6
25°	3265.0	3085.9	2620.9	1649.7	761.1	647.5	654.4	668.2	675.0	706.0	709.5
27.5°	3392.4	3220.2	2631.3	1322.5	619.9	599.3	616.5	633.7	644.0	668.2	678.5
30°	3509.5	3389.0	2576.2	985.0	568.3	557.9	564.8	588.9	609.6	630.3	630.3
32.5°	3657.6	3485.4	2448.7	699.1	537.3	520.1	516.6	526.9	551.1	575.2	575.2
35°	3809.2	3647.3	2245.5	561.4	509.7	485.6	471.8	461.5	471.8	489.1	502.8
37.5°	4029.6	3891.8	1990.7	516.6	489.1	454.6	427.1	403.0	385.7	382.3	392.6
40°	4343.0	4167.3	1663.5	485.6	465.0	423.6	382.3	341.0	303.1	279.0	282.4
42.5°	4818.3	4573.7	1308.8	468.4	447.7	389.2	330.6	272.1	223.9	199.8	199.8
45°	5496.8	5111.0	960.9	451.2	427.1	347.9	272.1	203.2	155.0	141.2	144.7
47.5°	6519.7	5758.5	688.8	423.6	399.5	303.1	213.5	144.7	113.7	106.8	110.2
50°	7856.0	6526.5	537.3	392.6	365.1	254.9	158.4	106.8	89.5	86.1	89.5
52.5°	9257.7	7301.5	471.8	365.1	313.4	203.2	117.1	86.1	75.8	72.3	75.8
55°	10456.2	7800.9	409.8	323.7	251.4	151.5	93.0	75.8	65.4	55.1	55.1
57.5°	11668.6	8052.3	323.7	268.6	186.0	113.7	79.2	65.4	55.1	44.8	41.3
60°	12653.6	8231.4	230.8	199.8	130.9	89.5	68.9	58.5	44.8	34.4	31.0
62.5°	13301.1	7718.2	168.8	151.5	96.4	75.8	58.5	48.2	34.4	24.1	24.1
65°	12980.8	7008.7	130.9	106.8	72.3	58.5	48.2	34.4	24.1	13.8	10.3
67.5°	11647.9	5710.3	106.8	79.2	55.1	44.8	37.9	27.6	13.8	3.4	3.4
70°	8689.4	4184.6	86.1	58.5	44.8	34.4	27.6	17.2	6.9	3.4	0.0
72.5°	4752.8	2290.3	68.9	48.2	34.4	27.6	20.7	13.8	6.9	0.0	0.0
75°	1570.5	609.6	51.7	34.4	20.7	17.2	13.8	10.3	3.4	0.0	0.0
77.5°	378.8	158.4	41.3	31.0	17.2	10.3	6.9	3.4	3.4	0.0	0.0
80°	117.1	65.4	31.0	20.7	13.8	10.3	3.4	0.0	0.0	0.0	0.0
82.5°	48.2	31.0	13.8	13.8	10.3	3.4	0.0	0.0	0.0	0.0	0.0
85°	24.1	17.2	10.3	6.9	6.9	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	6.9	3.4	3.4	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)