

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: P478694

Luminaire Tested: **IFLD-L-SA8B-827-U-T4W**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P478694  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-827-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

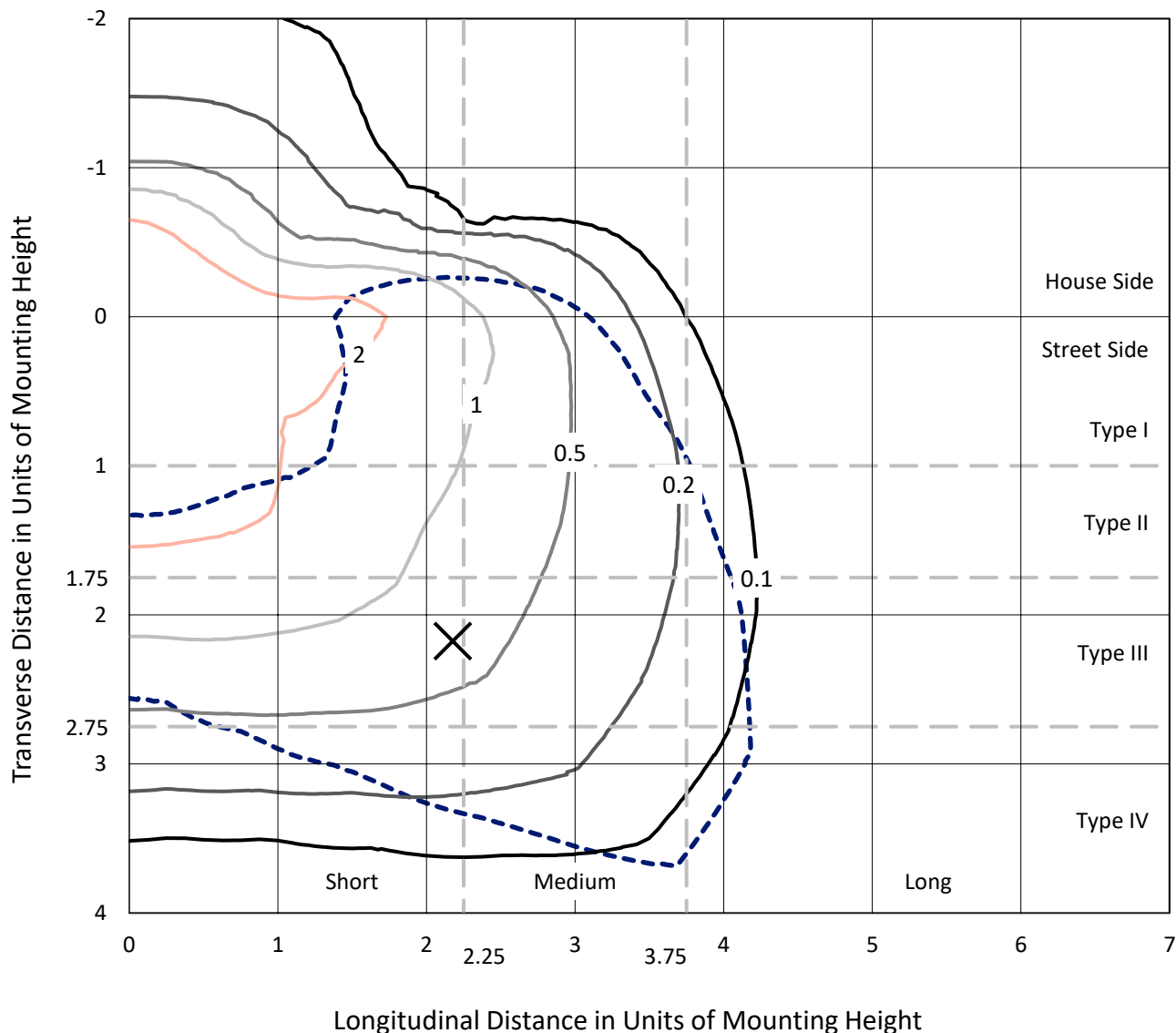
Lumens per Lamp: N/A  
Luminaire Lumens: 30240.1 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 320  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

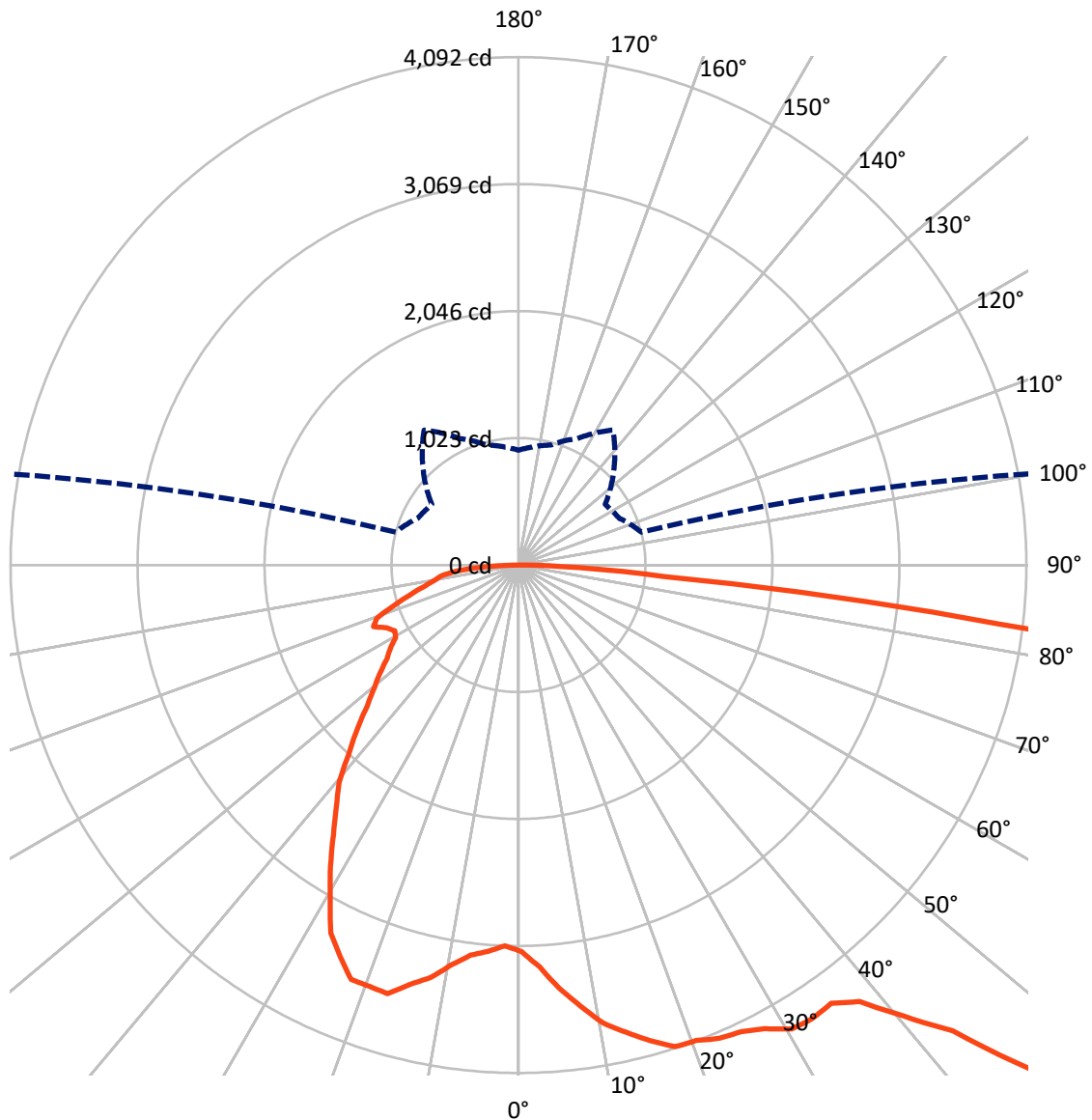
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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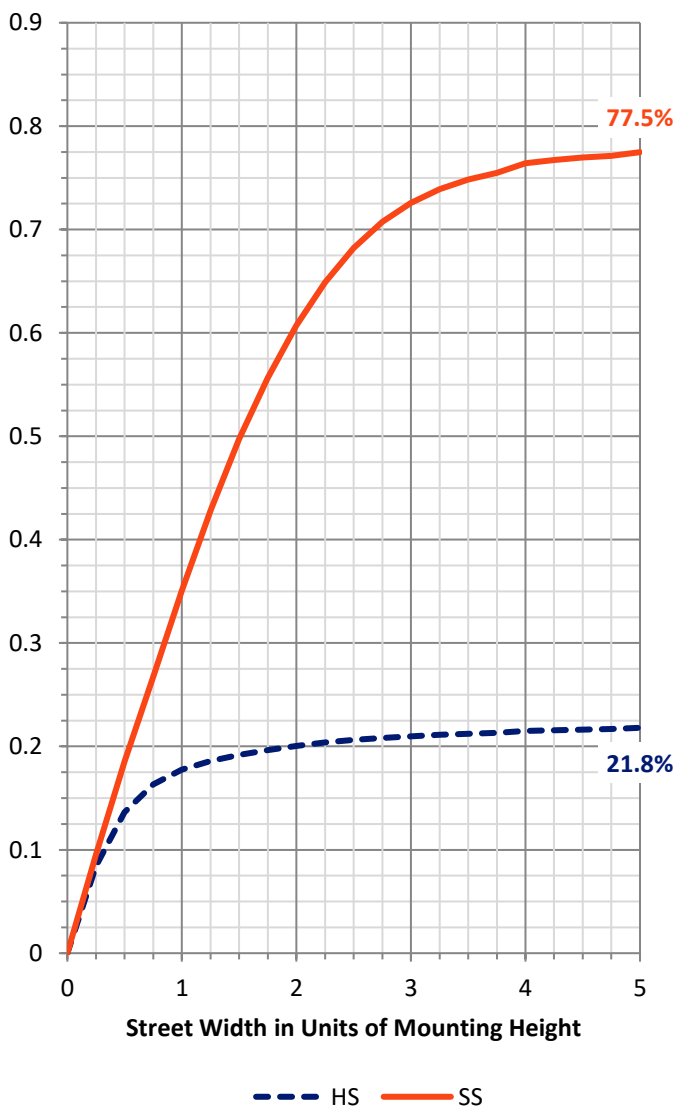
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6731.6	0.0	6731.6
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	23508.5	0.0	23508.5
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	30240.1	0.0	30240.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.7	1.1
10°-20°	1060.2	3.5
20°-30°	1790.4	5.9
30°-40°	2477.7	8.2
40°-50°	3544.1	11.7
50°-60°	5716.2	18.9
60°-70°	8430.5	27.9
70°-80°	6122.0	20.2
80°-90°	780.4	2.6
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°	30240.1	100.0
0°-180°	30240.1	100.0

**Coefficient of Utilization**



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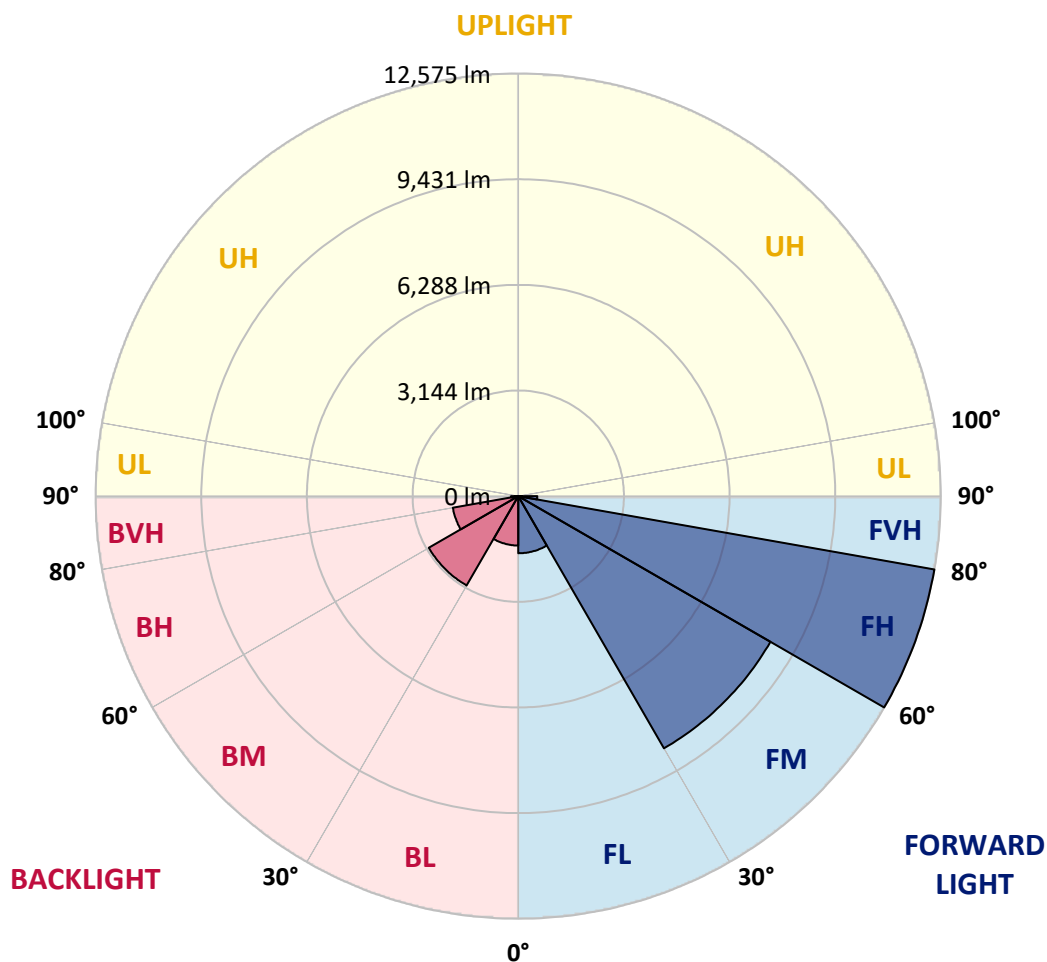
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1699.5	5.6			
FM (30°-60°)	8665.8	28.7			
FH (60°-80°)	12575.2	41.6			G5
FVH (80°-90°)	568.0	1.9			G4/750
BL (0°-30°)	1469.8	4.9	B3/2500		
BM (30°-60°)	3072.1	10.2	B3/5000		
BH (60°-80°)	1977.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	212.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2
2.5°	3280.5	3300.1	3280.5	3277.2	3244.6	3221.8	3241.4	3212.0	3179.4	3166.4	3137.0
5°	3580.5	3583.8	3547.9	3551.1	3482.7	3410.9	3424.0	3335.9	3241.4	3205.5	3146.8
7.5°	3887.0	3851.2	3799.0	3782.7	3675.1	3596.8	3587.0	3508.8	3362.0	3280.5	3199.0
10°	4085.9	4099.0	4014.2	3942.5	3851.2	3756.6	3753.3	3606.6	3521.8	3401.1	3296.8
12.5°	4262.0	4265.3	4193.5	4079.4	3965.3	3847.9	3864.2	3799.0	3655.5	3541.4	3437.0
15°	4399.0	4379.4	4301.2	4196.8	4076.2	3984.9	3975.1	3919.6	3799.0	3704.4	3531.6
17.5°	4438.1	4428.3	4350.1	4239.2	4121.8	4053.3	4079.4	3988.1	3939.2	3854.4	3688.1
20°	4363.1	4340.3	4327.2	4203.3	4118.5	4112.0	4089.2	4108.8	4027.2	3949.0	3828.3
22.5°	4226.2	4216.4	4209.9	4112.0	4072.9	4102.2	4141.4	4170.7	4157.7	4082.7	3945.7
25°	4085.9	4131.6	4089.2	4043.5	4099.0	4174.0	4164.2	4258.8	4258.8	4235.9	4121.8
27.5°	4183.8	4154.4	4121.8	4099.0	4118.5	4235.9	4229.4	4343.6	4385.9	4343.6	4213.1
30°	4428.3	4399.0	4304.4	4203.3	4177.2	4304.4	4337.0	4438.1	4457.7	4353.3	4242.5
32.5°	4888.1	4871.8	4721.8	4425.1	4265.3	4337.0	4353.3	4467.5	4451.2	4385.9	4340.3
35°	5569.7	5514.2	5305.5	4803.3	4451.2	4379.4	4337.0	4428.3	4490.3	4457.7	4415.3
37.5°	6316.4	6254.5	5996.8	5361.0	4787.0	4493.6	4460.9	4535.9	4607.7	4591.4	4503.3
40°	7030.6	7030.6	6799.0	6058.8	5286.0	4770.7	4777.3	4692.5	4757.7	4728.3	4744.6
42.5°	7734.9	7708.8	7614.3	6877.3	5820.8	5233.8	5129.4	4917.5	5034.9	5025.1	5047.9
45°	8449.1	8429.5	8403.4	7640.3	6587.1	5859.9	5804.4	5422.9	5530.5	5484.9	5582.7
47.5°	9019.7	9042.5	9042.5	8491.4	7405.6	6694.7	6613.2	6009.9	6215.3	6238.1	6261.0
50°	9505.6	9515.4	9505.6	9303.4	8318.6	7650.1	7483.8	6870.8	7076.2	7255.6	7464.3
52.5°	10177.3	10190.4	10144.7	10066.5	9557.8	8654.5	8468.6	7787.1	8207.7	8396.9	8771.9
55°	11005.6	10907.8	10823.0	10881.7	10748.0	9759.9	9567.6	8732.8	9365.4	9616.5	10366.5
57.5°	11158.9	11243.7	11458.9	11925.2	12117.6	10836.1	10725.2	9893.6	10673.0	10891.5	12143.7
60°	11700.2	11560.0	12088.2	13099.1	13314.4	12238.3	12124.1	11165.4	11974.1	12202.4	13783.9
62.5°	12055.6	12049.1	12831.7	14031.8	14520.9	13692.6	13461.1	12818.7	13379.6	13601.3	15570.9
65°	11951.3	12045.9	13435.0	14579.6	15528.5	15345.9	15212.2	14240.5	14980.7	14961.1	16735.1
67.5°	10999.1	11266.5	13053.5	14974.2	17028.6	17361.2	17318.8	16239.4	16281.8	15867.7	17253.6
70°	9678.4	9587.1	11439.3	14563.3	17778.6	19751.4	19741.6	17726.4	17452.5	16066.6	15766.6
72°	7434.9	7333.8	8856.7	12505.6	17384.0	20706.9	21000.4	18756.8	17439.4	15241.6	13024.1
72.5°	6750.1	6662.1	8178.4	11771.9	16947.0	20954.7	20817.7	18796.0	17302.5	14853.5	12166.5
75°	3107.7	3006.6	4085.9	7206.6	13219.8	18567.7	19034.0	17589.4	15111.1	11824.1	7288.2
77.5°	926.1	896.8	1314.2	2908.7	7682.7	13679.6	13858.9	13272.0	10549.1	6476.2	2703.3
80°	515.2	518.5	678.3	1089.1	3378.3	7907.7	8553.4	8198.0	5175.1	2139.2	900.0
82.5°	287.0	303.3	423.9	645.7	1552.2	3629.4	3906.6	3766.4	1871.8	1004.4	492.4
85°	150.0	156.5	221.7	345.7	880.4	1147.8	1180.5	1265.2	971.8	684.8	264.1
87.5°	58.7	58.7	81.5	143.5	326.1	355.4	319.6	388.1	557.6	443.5	130.4
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°	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2
2.5°	3163.1	3137.0	3133.7	3091.4	3104.4	3068.5	3071.8	3065.3	3068.5	3062.0	3045.7
5°	3146.8	3127.2	3071.8	3107.7	3075.1	3120.7	3156.6	3143.5	3153.3	3150.1	3153.3
7.5°	3169.6	3143.5	3137.0	3117.4	3146.8	3166.4	3195.7	3277.2	3270.7	3280.5	3300.1
10°	3238.1	3208.8	3189.2	3218.5	3202.2	3264.2	3296.8	3339.2	3414.2	3417.4	3378.3
12.5°	3371.8	3352.2	3313.1	3319.6	3375.1	3394.6	3414.2	3440.3	3489.2	3479.4	3515.3
15°	3525.1	3482.7	3459.8	3453.3	3466.4	3489.2	3485.9	3512.0	3538.1	3560.9	3551.1
17.5°	3635.9	3580.5	3587.0	3619.6	3616.4	3609.8	3567.5	3554.4	3567.5	3580.5	3574.0
20°	3750.1	3756.6	3707.7	3678.3	3665.3	3600.1	3567.5	3528.3	3489.2	3508.8	3538.1
22.5°	3893.5	3864.2	3792.5	3704.4	3639.2	3600.1	3499.0	3430.5	3430.5	3450.1	3440.3
25°	4056.6	3994.6	3870.7	3710.9	3629.4	3463.1	3391.4	3381.6	3355.5	3384.8	3397.9
27.5°	4183.8	4128.3	3958.8	3688.1	3463.1	3329.4	3287.0	3274.0	3316.4	3319.6	3371.8
30°	4235.9	4219.6	3971.8	3629.4	3293.5	3078.3	3052.2	3110.9	3156.6	3225.1	3228.3
32.5°	4304.4	4310.9	3991.4	3492.5	3071.8	2856.6	2817.4	2889.2	3019.6	3075.1	3117.4
35°	4418.6	4451.2	3975.1	3322.9	2837.0	2631.6	2625.0	2644.6	2771.8	2869.6	2925.0
37.5°	4617.5	4610.9	3971.8	3120.7	2651.1	2435.9	2383.7	2390.3	2475.0	2556.6	2546.8
40°	4884.9	4858.8	3962.0	2856.6	2409.8	2269.6	2181.6	2148.9	2142.4	2119.6	2126.1
42.5°	5250.1	5197.9	3958.8	2589.2	2191.3	2041.3	1979.4	1894.6	1832.6	1715.2	1721.8
45°	5758.8	5667.5	3874.0	2338.1	1976.1	1852.2	1757.6	1695.7	1562.0	1415.2	1415.2
47.5°	6544.7	6247.9	3877.2	2060.9	1767.4	1666.3	1601.1	1493.5	1350.0	1232.6	1219.6
50°	7702.3	7024.0	3766.4	1842.4	1597.9	1529.4	1460.9	1337.0	1200.0	1118.5	1128.3
52.5°	9195.8	8181.7	3763.1	1646.8	1464.2	1415.2	1340.2	1229.4	1128.3	1076.1	1056.5
55°	10976.3	9714.3	3880.5	1487.0	1327.2	1301.1	1268.5	1177.2	1079.4	1033.7	1030.5
57.5°	12799.1	11211.1	4069.6	1372.8	1209.8	1229.4	1206.5	1134.8	1056.5	1004.4	997.8
60°	14419.8	12398.0	3688.1	1235.9	1105.5	1147.8	1180.5	1118.5	1076.1	1072.8	1050.0
62.5°	15642.7	12906.7	2804.4	1131.5	1050.0	1128.3	1216.3	1255.5	1235.9	1262.0	1265.2
65°	16089.4	12600.2	1930.5	1076.1	1007.6	1173.9	1369.6	1356.5	1242.4	1193.5	1219.6
67.5°	15463.3	11357.8	1431.5	1010.9	978.3	1268.5	1457.6	1294.6	1121.8	1115.2	1095.7
70°	13298.1	9626.3	1167.4	942.4	929.4	1216.3	1418.5	1200.0	1056.5	1014.1	994.6
72°	10594.7	7496.9	1023.9	893.5	851.1	1085.9	1327.2	1125.0	1001.1	948.9	926.1
72.5°	9671.9	6949.0	1004.4	870.7	834.8	1056.5	1281.5	1102.2	988.1	942.4	906.5
75°	5305.5	3557.7	883.7	798.9	704.4	913.1	1187.0	1033.7	932.6	867.4	860.9
77.5°	1972.9	1379.4	763.1	707.6	609.8	789.1	1079.4	981.5	847.8	766.3	750.0
80°	756.5	727.2	622.8	596.7	512.0	691.3	994.6	880.4	720.7	639.1	613.1
82.5°	459.8	423.9	472.8	466.3	391.3	629.4	935.9	825.0	639.1	518.5	502.2
85°	251.1	251.1	329.4	316.3	273.9	502.2	707.6	547.8	404.4	332.6	339.1
87.5°	110.9	130.4	176.1	166.3	150.0	283.7	345.7	290.2	202.2	137.0	146.7
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)