

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: P476975

Luminaire Tested: **IFLD-L-SA7D-735-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476975  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-735-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

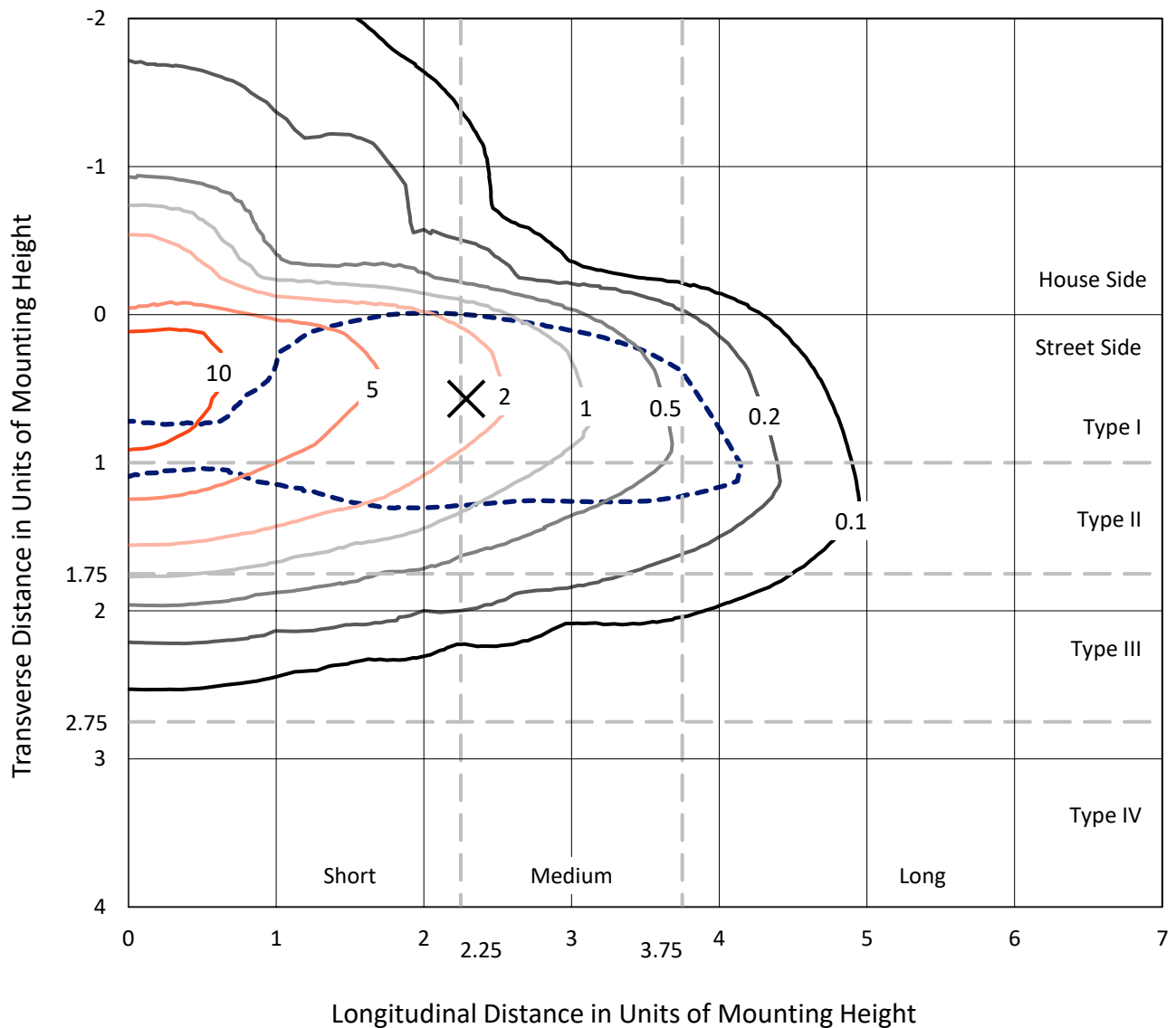
Lumens per Lamp: N/A  
Luminaire Lumens: 48381.2 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

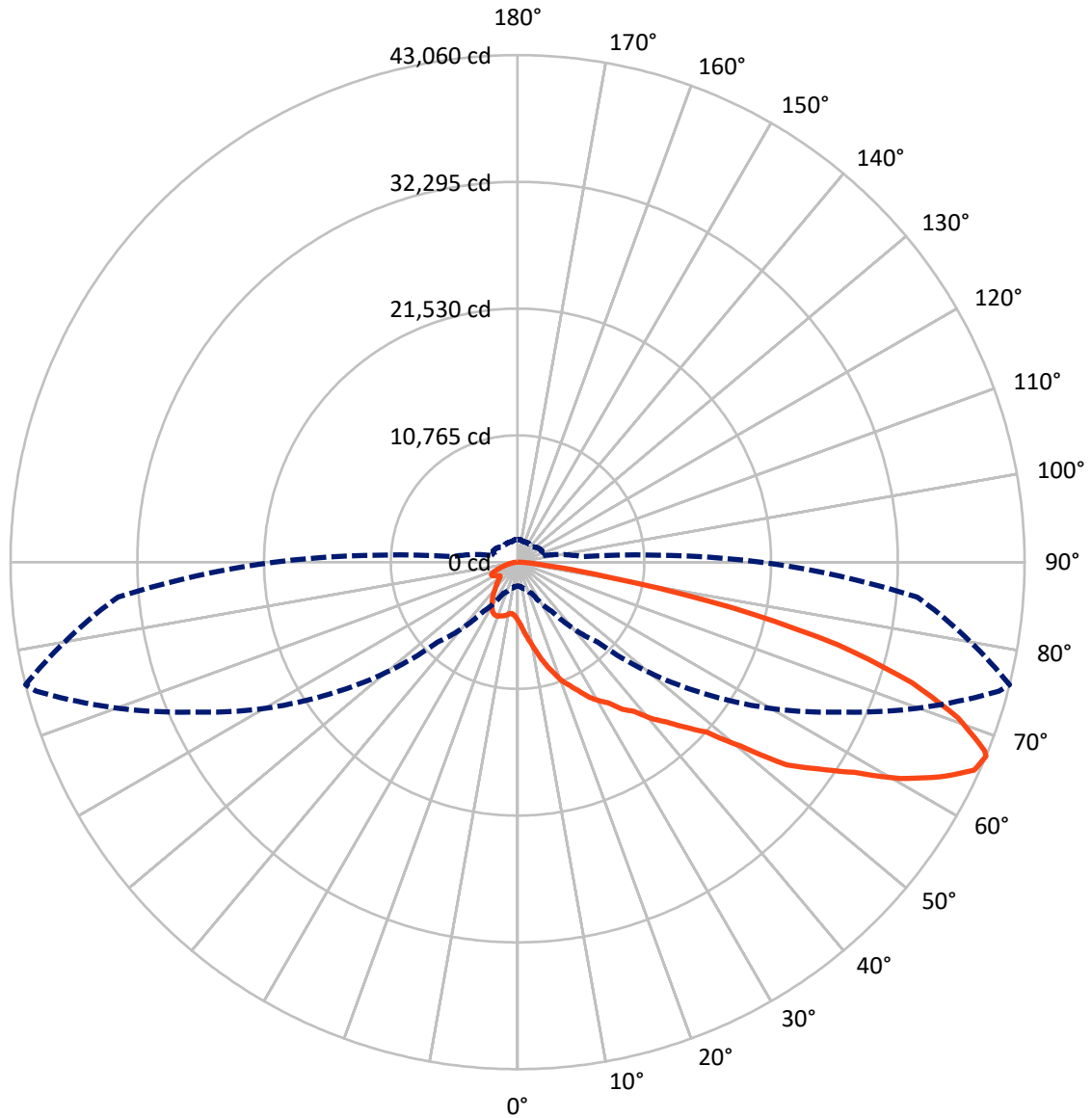
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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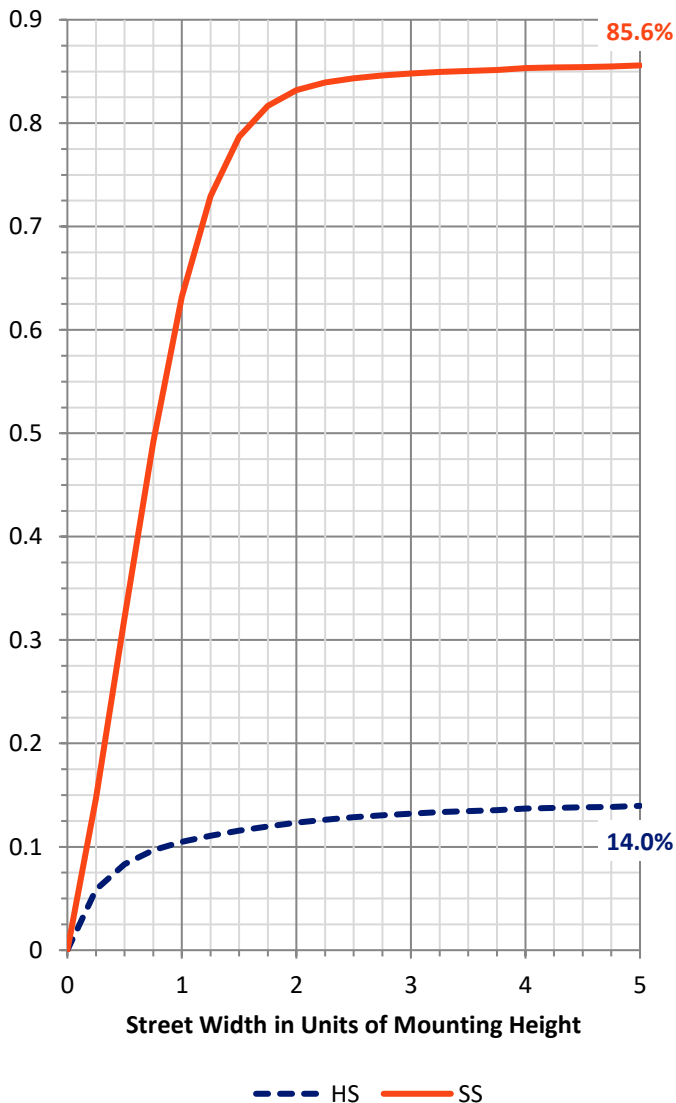
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6882.8	0.0	6882.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	41498.4	0.0	41498.4
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	48381.2	0.0	48381.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.5	1.2
10°-20°	2151.0	4.4
20°-30°	3998.9	8.3
30°-40°	6339.2	13.1
40°-50°	8767.7	18.1
50°-60°	10784.8	22.3
60°-70°	10035.8	20.7
70°-80°	5035.9	10.4
80°-90°	694.4	1.4
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°	48381.2	100.0
0°-180°	48381.2	100.0



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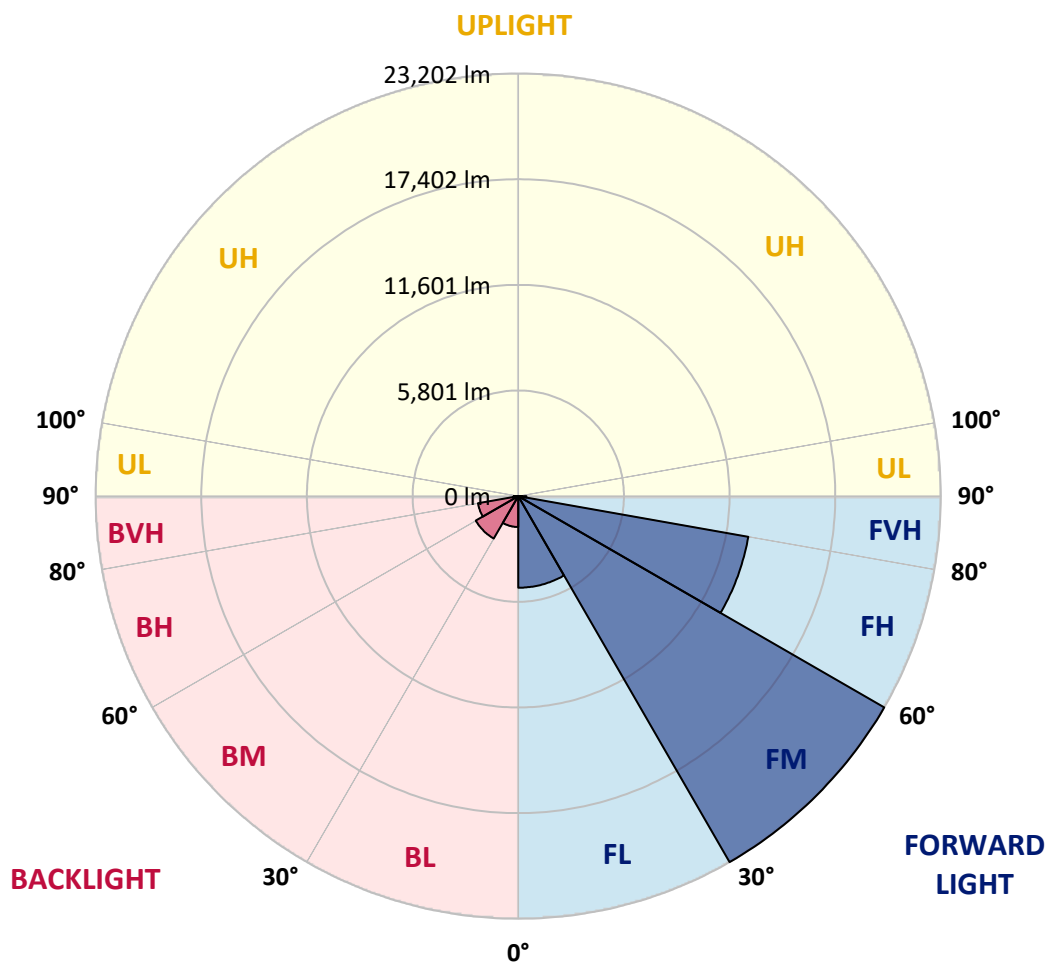
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5028.4	10.4			
FM (30°-60°)	23202.1	48.0			
FH (60°-80°)	12825.5	26.5			G5
FVH (80°-90°)	442.4	0.9			G3/500
BL (0°-30°)	1695.0	3.5	B3/2500		
BM (30°-60°)	2689.7	5.6	B3/5000		
BH (60°-80°)	2246.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	252.0	0.5			G3/500
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4951.1	4951.1	4951.1	4951.1	4951.1	4951.1	4951.1	4951.1	4951.1	4951.1	4951.1
2.5°	6869.8	6787.1	6704.4	6527.9	6467.3	6301.9	5998.6	5662.3	5386.6	5348.0	5155.1
5°	8523.8	8402.5	8374.9	8275.7	7961.4	7641.6	7145.4	6605.1	5932.5	5982.1	5320.5
7.5°	9764.3	9692.6	9543.8	9450.0	9262.6	8838.1	8325.3	7608.6	6754.0	6588.6	5689.9
10°	10701.6	10602.4	10596.8	10514.1	10414.9	9979.3	9587.9	8623.0	7525.9	7299.8	6142.0
12.5°	11175.8	11159.2	11451.4	11451.4	11412.8	11230.9	10558.3	9676.1	8259.1	8182.0	6665.8
15°	11688.5	11550.7	11804.3	11997.3	12096.5	12190.2	11633.4	10701.6	9196.4	9047.6	7228.1
17.5°	11688.5	11677.5	11931.1	12250.9	12769.1	12890.4	12587.2	11644.4	9973.8	9863.6	7845.6
20°	11490.0	11649.9	11826.3	12256.4	12818.8	13309.5	13397.7	12609.3	10833.9	10745.7	8545.8
22.5°	12416.3	12261.9	12443.8	12609.3	13044.8	13789.1	14031.7	13458.3	11738.1	11401.8	9179.9
25°	13971.1	13866.3	13734.0	13491.4	13673.3	13998.6	14368.0	14086.9	12510.0	12135.1	9791.9
27.5°	15487.3	15492.8	15206.1	14676.8	14285.3	14351.5	14787.1	14638.2	13160.6	12995.2	10210.9
30°	17643.0	17510.7	17190.9	16474.2	15707.8	15079.3	15007.6	15151.0	13987.6	13667.8	10811.9
32.5°	19258.5	19286.0	18833.9	17802.9	16755.4	16242.6	15614.1	15674.7	14511.4	14274.3	11291.5
35°	20565.2	20532.1	20212.3	19357.7	18117.2	17499.7	16650.6	16303.3	15729.9	15354.9	12024.8
37.5°	21976.6	21706.4	21188.2	20223.3	19429.4	18574.8	17747.8	16964.9	16540.3	16088.2	12653.4
40°	22544.5	22544.5	21849.8	21408.7	20465.9	19820.8	19286.0	17836.0	17527.2	17439.0	13458.3
42.5°	22142.0	22390.1	22103.4	21601.7	21215.7	20399.8	20256.4	18740.2	18745.7	18569.3	14423.2
45°	22103.4	21761.6	21524.5	21651.3	21469.4	21425.3	21789.1	19991.8	20024.8	20002.8	15718.8
47.5°	20995.2	20840.8	21193.7	21403.2	21552.1	22235.7	23283.3	21485.9	21723.0	21557.6	17213.0
50°	19892.5	19864.9	20085.5	20846.3	21491.4	22616.2	24705.8	23790.5	24567.9	24556.9	19920.1
52.5°	16871.1	17163.4	18029.0	19638.9	21232.3	23134.4	25780.9	26734.7	28217.8	28620.3	22164.1
55°	13982.1	13827.7	15106.8	17444.5	20102.0	23338.4	26982.8	28504.5	30687.8	30980.1	24468.7
57.5°	10878.0	11164.7	12173.7	14417.7	17764.3	22329.5	27865.0	30252.3	33477.6	33703.7	27142.7
60°	8115.8	8154.4	9262.6	11071.0	14654.7	20052.4	28151.7	32044.2	36675.4	37320.5	29943.5
62.5°	5105.5	5337.0	6180.6	7961.4	11032.4	16865.6	26867.0	33130.3	40027.6	40198.5	32766.4
65°	2751.2	2900.1	3534.1	4653.3	7707.8	12758.1	23459.7	32479.7	41604.5	42618.9	34023.5
67°	2034.5	2062.0	2354.2	2971.7	5155.1	9604.4	19561.7	30125.5	42321.2	43060.0	34073.1
67.5°	1907.7	1946.2	2177.8	2668.5	4570.6	8843.6	18541.7	29287.4	42001.4	42795.4	33687.2
70°	1632.0	1643.0	1698.1	1836.0	2563.8	5320.5	12625.8	24000.0	38930.4	39691.3	30980.1
72.5°	1450.0	1461.1	1483.1	1510.7	1736.7	3076.5	7680.2	18470.0	33836.0	35049.0	26729.2
75°	1273.6	1312.2	1323.2	1301.2	1477.6	2001.4	4085.5	13574.1	27600.3	28190.3	20785.7
77.5°	1080.6	1097.2	1119.2	1141.3	1317.7	1494.1	1962.8	9163.3	18944.2	18585.8	11241.9
80°	909.7	915.2	931.8	948.3	1141.3	1141.3	1113.7	4951.1	8275.7	7911.8	3798.8
82.5°	650.6	689.2	727.8	771.9	948.3	766.4	727.8	2205.4	2618.9	2492.1	1284.6
85°	253.6	308.8	479.7	529.3	601.0	413.5	485.2	953.8	1091.7	1080.6	479.7
87.5°	44.1	49.6	132.3	204.0	220.5	143.3	231.6	341.8	408.0	441.1	176.4
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°	4951.1	4951.1	4951.1	4951.1	4951.1	4951.1	4951.1	4951.1	4951.1	4951.1	4951.1
2.5°	4995.2	4824.3	4620.3	4416.3	4283.9	4074.4	4057.9	3931.1	3914.5	3870.4	3892.5
5°	5033.8	4829.8	4416.3	4091.0	3942.1	3820.8	3848.4	3793.3	3776.7	3749.1	3705.0
7.5°	5337.0	4934.5	4317.0	4035.8	3925.6	3870.4	3870.4	3804.3	3754.7	3787.7	3820.8
10°	5535.5	4984.2	4394.2	4113.0	4024.8	3903.5	3947.6	3864.9	3892.5	3826.3	3826.3
12.5°	5855.3	5265.3	4554.1	4228.8	4085.5	3975.2	4019.3	3925.6	3903.5	3909.0	3892.5
15°	6285.3	5452.8	4625.8	4295.0	4195.7	4057.9	4024.8	3942.1	3859.4	3831.8	3864.9
17.5°	6687.8	5684.4	4675.4	4333.6	4173.7	4019.3	3980.7	3876.0	3848.4	3765.7	3699.5
20°	7167.5	5960.0	4741.6	4366.6	4091.0	3936.6	3837.4	3732.6	3638.9	3589.3	3611.3
22.5°	7487.3	6103.4	4774.6	4300.5	3969.7	3826.3	3616.8	3545.1	3412.8	3357.7	3313.6
25°	8011.0	6279.8	4691.9	4118.5	3754.7	3523.1	3335.6	3236.4	3142.7	3071.0	3048.9
27.5°	8143.4	6412.1	4499.0	3809.8	3412.8	3170.2	3010.3	2889.0	2828.4	2718.1	2696.1
30°	8529.3	6279.8	4212.3	3434.9	3087.5	2839.4	2679.5	2591.3	2448.0	2420.4	2359.8
32.5°	8777.4	6318.4	3848.4	3071.0	2712.6	2492.1	2387.3	2299.1	2260.5	2128.2	2095.1
35°	9190.9	6186.1	3479.0	2734.7	2403.9	2232.9	2144.7	2117.2	1990.4	1929.7	1874.6
37.5°	9455.6	6108.9	3109.6	2354.2	2067.5	1995.9	2023.4	1907.7	1753.3	1637.5	1598.9
40°	9918.7	6081.3	2690.6	2040.0	1836.0	1819.4	1907.7	1687.1	1405.9	1306.7	1251.6
42.5°	10585.8	5893.9	2365.3	1758.8	1654.0	1725.7	1742.2	1405.9	1246.0	1163.3	1124.7
45°	11225.4	5932.5	2045.5	1455.5	1439.0	1543.8	1505.2	1190.9	1097.2	1036.5	1069.6
47.5°	12454.9	6125.4	1731.2	1213.0	1295.7	1394.9	1168.9	1064.1	975.9	931.8	937.3
50°	14357.0	6312.9	1455.5	1108.2	1224.0	1262.6	1003.4	964.9	959.3	871.1	865.6
52.5°	15498.3	6241.2	1405.9	1240.5	1312.2	1262.6	1091.7	1064.1	1020.0	981.4	937.3
55°	17312.2	6450.7	1510.7	1450.0	1488.6	1213.0	1224.0	1213.0	1179.9	1080.6	1108.2
57.5°	18756.7	6588.6	1648.5	1621.0	1598.9	1262.6	1279.1	1284.6	1262.6	1218.5	1257.1
60°	20741.6	6864.2	1791.9	1797.4	1802.9	1372.8	1400.4	1433.5	1428.0	1411.4	1422.5
62.5°	21960.1	6737.4	1951.8	2040.0	2012.4	1598.9	1593.4	1615.4	1615.4	1643.0	1659.5
65°	21778.1	6268.8	2034.5	2255.0	2111.7	1764.3	1764.3	1775.3	1780.8	1836.0	1841.5
67°	20686.5	5430.7	1990.4	2288.1	2111.7	1830.5	1830.5	1841.5	1802.9	1946.2	1902.1
67.5°	20179.2	5182.6	1951.8	2260.5	2095.1	1825.0	1825.0	1830.5	1797.4	1935.2	1891.1
70°	17549.3	3848.4	1681.6	2001.4	1940.7	1775.3	1775.3	1742.2	1714.7	1896.6	1858.0
72.5°	14980.0	2795.3	1350.8	1703.7	1753.3	1709.2	1720.2	1637.5	1560.3	1687.1	1654.0
75°	11473.5	2056.5	1053.1	1312.2	1483.1	1598.9	1670.6	1461.1	1361.8	1394.9	1334.3
77.5°	6401.1	1339.8	832.5	970.4	1130.3	1488.6	1604.4	1317.7	1113.7	1075.1	1075.1
80°	2172.3	782.9	612.0	722.3	777.4	1317.7	1499.7	1069.6	876.6	838.0	810.5
82.5°	821.5	479.7	419.0	496.2	496.2	1042.0	1224.0	821.5	661.6	854.6	871.1
85°	374.9	286.7	275.7	286.7	286.7	639.6	865.6	534.8	595.5	512.8	452.1
87.5°	148.9	137.8	126.8	121.3	99.2	110.3	297.7	143.3	270.2	71.7	66.2
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)