

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: P476780

Luminaire Tested: **IFLD-L-SA7D-830-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476780  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-830-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

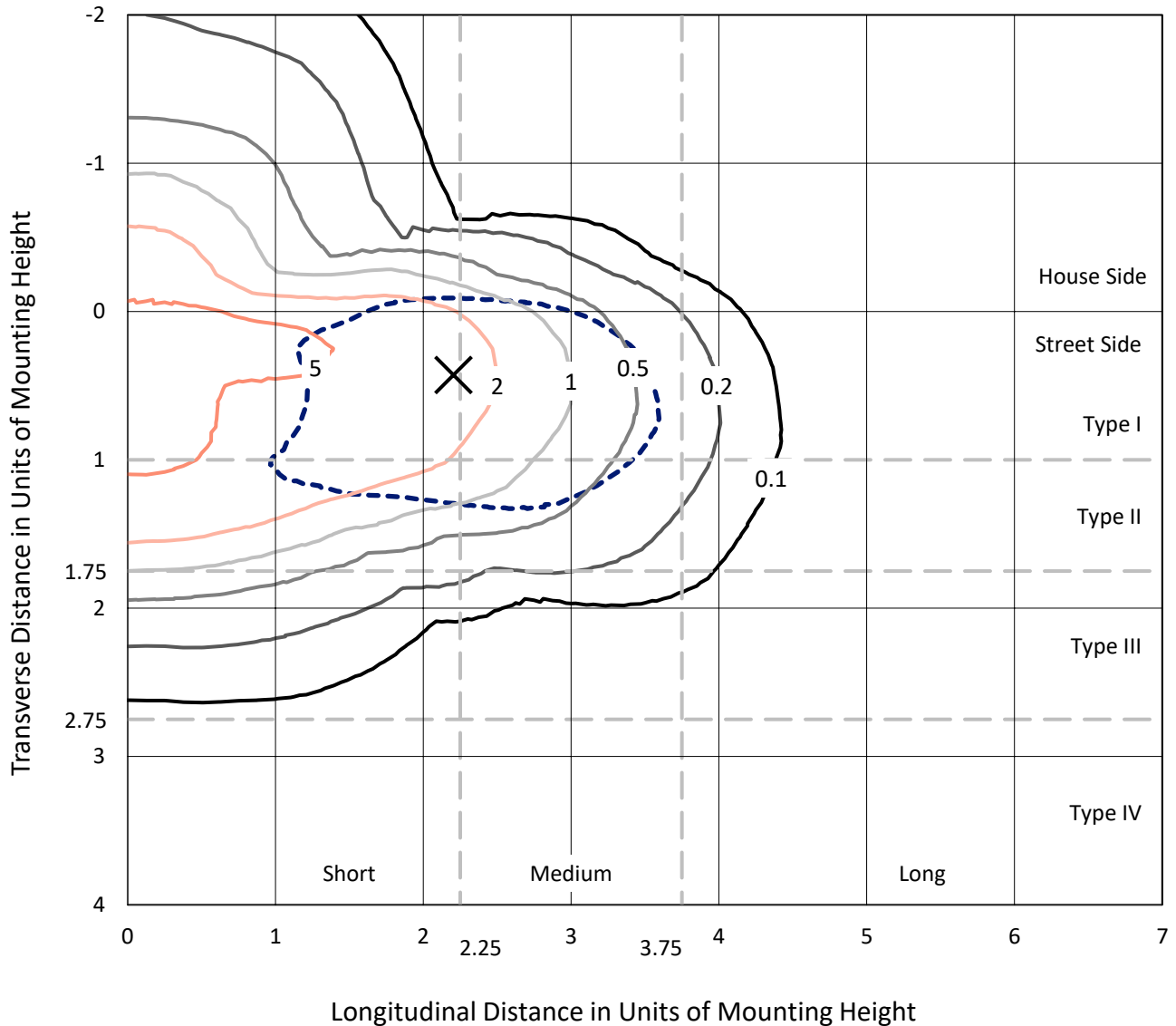
Lumens per Lamp: N/A  
Luminaire Lumens: 38713.1 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

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

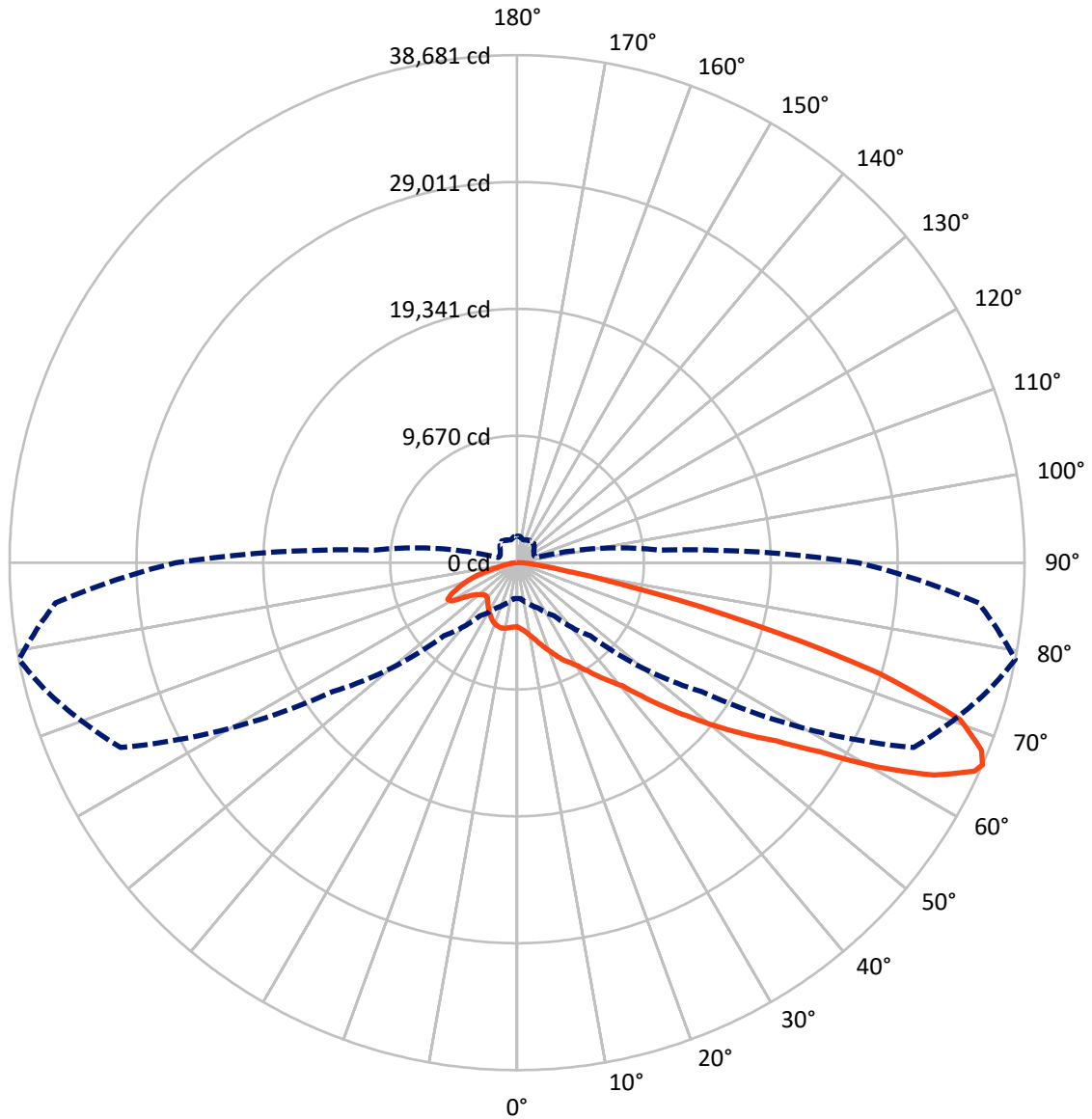
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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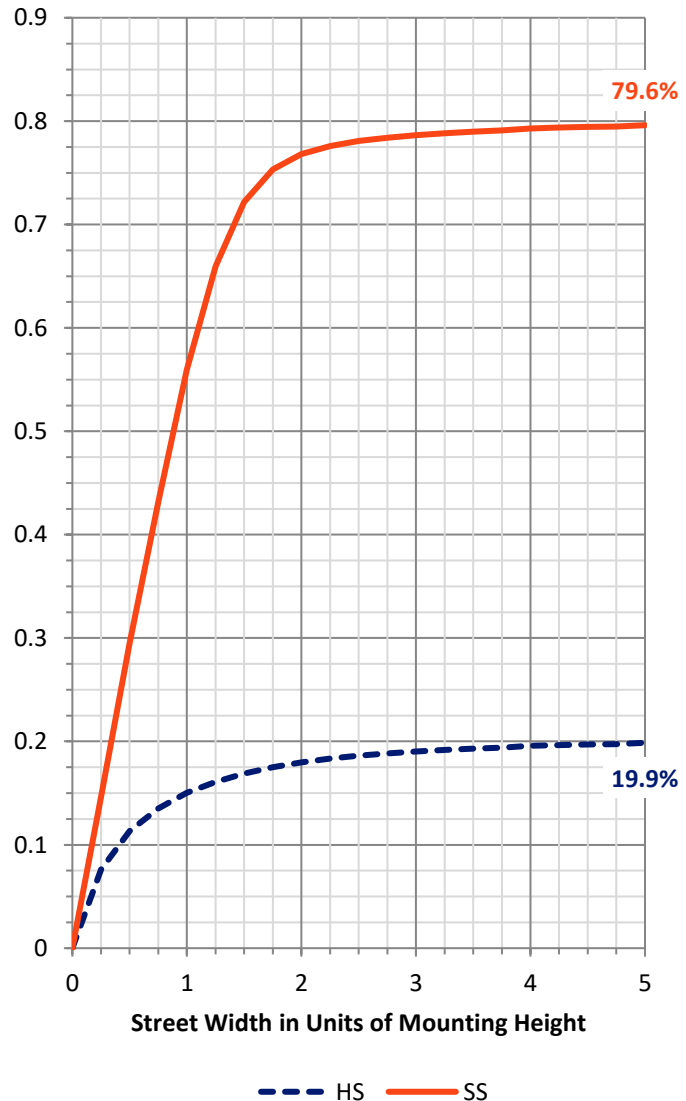
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7817.6	0.0	7817.6
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	30895.5	0.0	30895.5
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	38713.1	0.0	38713.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.7	1.2
10°-20°	1484.3	3.8
20°-30°	2547.8	6.6
30°-40°	3935.9	10.2
40°-50°	6304.3	16.3
50°-60°	9412.8	24.3
60°-70°	9671.7	25.0
70°-80°	4287.3	11.1
80°-90°	588.3	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°	38713.1	100.0
0°-180°	38713.1	100.0

**Coefficient of Utilization**



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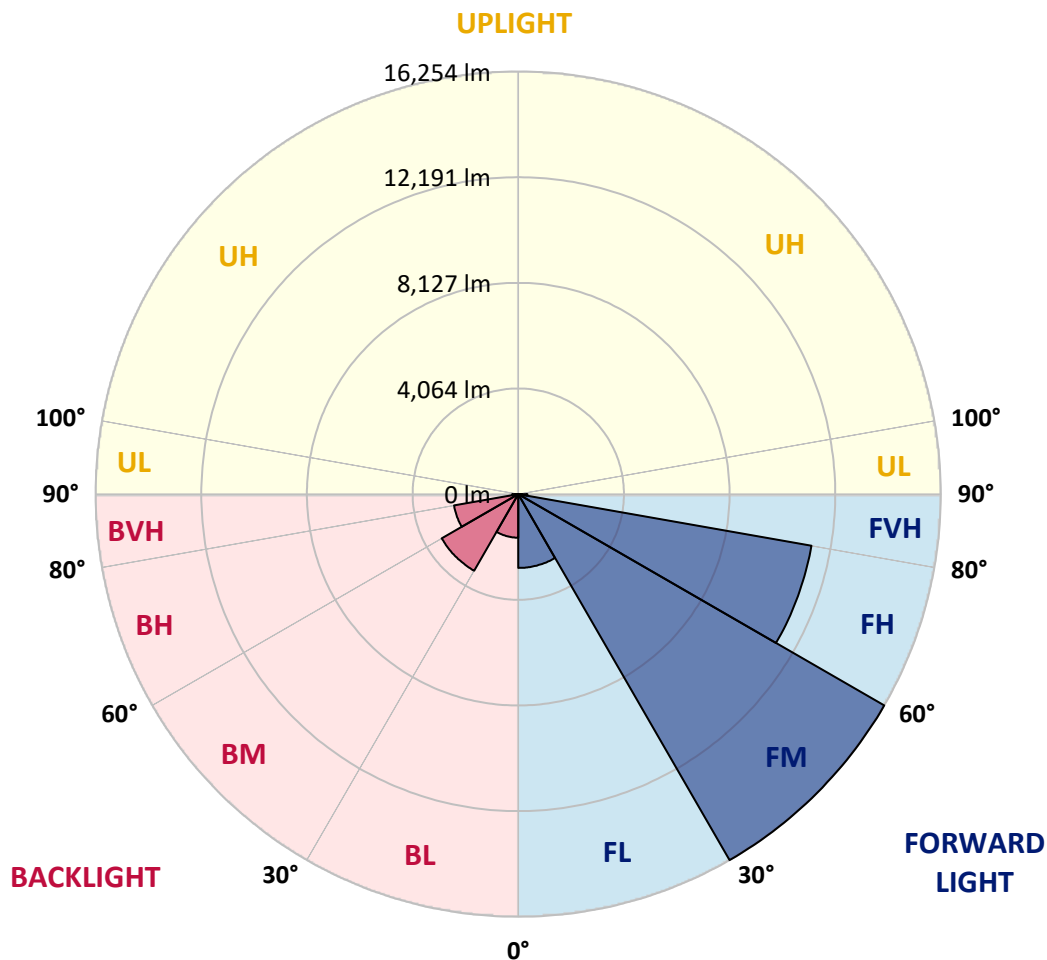
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2837.9	7.3			
FM (30°-60°)	16254.3	42.0			
FH (60°-80°)	11450.5	29.6			G4/12000
FVH (80°-90°)	352.8	0.9			G3/500
BL (0°-30°)	1674.9	4.3	B3/2500		
BM (30°-60°)	3398.7	8.8	B3/5000		
BH (60°-80°)	2508.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	235.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4
2.5°	5199.2	5203.5	5203.5	5186.5	5190.7	5203.5	5156.7	5054.5	5054.5	5037.4	5007.6
5°	5518.6	5497.3	5467.5	5471.8	5454.7	5454.7	5403.6	5305.7	5220.5	5186.5	5097.0
7.5°	5561.2	5582.5	5578.2	5629.3	5654.9	5654.9	5680.4	5599.5	5471.8	5390.9	5301.4
10°	5646.3	5591.0	5586.7	5706.0	5744.3	5833.7	5935.9	5893.3	5786.9	5671.9	5552.7
12.5°	5697.4	5731.5	5731.5	5791.1	5880.5	6012.5	6191.4	6272.3	6106.2	5987.0	5803.9
15°	5774.1	5727.2	5863.5	5914.6	6084.9	6178.6	6434.1	6642.8	6532.0	6387.3	6097.7
17.5°	5808.2	5778.3	5855.0	5948.7	6238.2	6378.7	6689.6	6979.2	6885.5	6791.8	6493.7
20°	5982.7	5978.5	6012.5	6089.2	6297.8	6574.6	6962.1	7362.4	7396.5	7226.1	6821.6
22.5°	6408.6	6353.2	6353.2	6323.4	6412.8	6698.1	7221.9	7775.4	7928.7	7728.6	7192.1
25°	6800.3	6877.0	6830.1	6693.9	6659.8	6808.8	7409.2	8214.0	8418.4	8231.1	7694.5
27.5°	7302.8	7328.3	7409.2	7226.1	6991.9	7038.8	7613.6	8461.0	8882.6	8631.3	7979.8
30°	8026.7	7979.8	7962.8	7758.4	7451.8	7387.9	7847.8	8822.9	9491.5	9138.0	8316.2
32.5°	8516.4	8631.3	8627.1	8346.0	7975.6	7835.0	8137.4	9163.6	10143.0	9815.1	8937.9
35°	9487.2	9606.4	9512.8	9099.7	8665.4	8384.4	8554.7	9606.4	10888.2	10632.7	9465.9
37.5°	10726.3	11007.4	10807.3	10045.0	9431.9	9125.3	9133.8	10087.6	11650.4	11441.7	10032.3
40°	11582.2	11961.2	11684.4	10969.1	10317.6	10028.0	9913.0	10658.2	12561.6	12340.2	10918.0
42.5°	12642.5	12957.6	12812.9	12106.0	11343.8	11096.8	10866.9	11612.0	13954.0	13851.8	12054.9
45°	13800.8	13949.8	13902.9	13455.8	12608.5	12523.3	12016.6	12868.2	15593.4	15636.0	13477.1
47.5°	14878.1	14959.0	15048.4	14724.8	14196.8	14269.2	13340.9	14213.8	17186.0	17467.0	15061.2
50°	15154.9	15431.6	15640.3	15857.5	15972.4	16462.1	14801.4	15866.0	19017.0	19562.1	16824.1
52.5°	14873.8	14852.5	15487.0	16168.3	17318.0	18344.2	16790.0	17918.4	20635.1	21712.4	18437.9
55°	13596.4	13553.8	14575.7	15478.5	17722.5	19391.7	19630.2	20652.2	22589.6	23990.6	20622.4
57.5°	11360.8	11096.8	12212.5	13694.3	16845.3	19506.7	22483.2	24710.2	25595.9	27192.7	23956.5
60°	7634.9	7524.2	8593.0	10360.1	13677.3	17875.8	24190.7	29790.2	29832.8	31629.7	29130.2
62.5°	4701.0	4722.3	5407.9	6732.2	9576.6	14171.2	23454.0	33848.2	33856.8	35658.0	33388.4
65°	3074.4	3087.2	3640.7	4373.1	5982.7	9610.7	19396.0	34167.6	36654.4	38327.9	35338.6
66°	2738.0	2742.3	3219.2	3815.3	4956.5	7864.9	17130.6	33337.3	37284.6	38681.3	35313.1
67.5°	2307.9	2363.3	2746.5	3206.4	3866.4	5650.6	13592.1	30935.7	36961.0	38187.3	34512.5
70°	1805.5	1835.3	2137.6	2606.0	2899.8	3270.3	8077.8	25216.9	33831.2	35819.8	31599.9
72.5°	1447.8	1473.3	1703.3	2116.3	2354.8	2154.6	4398.7	18297.4	26724.3	28844.9	24855.0
75°	1222.1	1226.4	1337.1	1664.9	1937.5	1618.1	2342.0	11744.1	17147.7	18135.6	15227.2
77.5°	987.9	1004.9	1081.6	1268.9	1558.5	1273.2	1396.7	6578.9	8610.0	8682.4	7038.8
80°	804.8	813.3	860.2	924.0	1188.0	941.1	945.3	3210.7	3691.8	3606.7	2861.5
82.5°	634.5	643.0	698.3	685.6	872.9	672.8	587.6	1545.7	1699.0	1664.9	1315.8
85°	357.7	357.7	549.3	549.3	553.6	425.8	357.7	728.1	898.5	838.9	617.4
87.5°	115.0	119.2	166.1	174.6	276.8	191.6	174.6	272.5	425.8	374.7	221.4
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°	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4
2.5°	4990.6	4922.5	4892.6	4794.7	4769.2	4705.3	4675.5	4637.2	4624.4	4569.0	4620.1
5°	5028.9	5007.6	4888.4	4764.9	4671.2	4628.6	4564.8	4479.6	4471.1	4394.4	4385.9
7.5°	5190.7	5118.3	4909.7	4777.7	4590.3	4483.9	4343.3	4300.8	4245.4	4219.9	4275.2
10°	5442.0	5258.8	4948.0	4615.9	4385.9	4258.2	4156.0	4126.2	4130.4	4113.4	4087.8
12.5°	5620.8	5446.2	4884.1	4479.6	4181.5	4058.0	4049.5	4079.3	4126.2	4104.9	4134.7
15°	5876.3	5548.4	4837.3	4253.9	4015.5	3981.4	3977.1	4066.6	4062.3	4062.3	4058.0
17.5°	6114.7	5650.6	4667.0	4058.0	3840.9	3866.4	3896.2	3892.0	3934.6	3951.6	3981.4
20°	6417.1	5769.8	4428.5	3862.2	3708.9	3700.4	3696.1	3700.4	3742.9	3768.5	3747.2
22.5°	6681.1	5795.4	4228.4	3674.8	3551.3	3517.3	3461.9	3517.3	3496.0	3504.5	3530.0
25°	6911.0	5799.6	3943.1	3534.3	3393.8	3317.1	3274.5	3270.3	3232.0	3227.7	3227.7
27.5°	7102.6	5654.9	3691.8	3338.4	3206.4	3134.0	3129.8	3082.9	2985.0	2921.1	2929.6
30°	7251.7	5544.1	3517.3	3168.1	3040.3	3027.6	2989.2	2882.8	2755.0	2674.1	2674.1
32.5°	7515.7	5322.7	3278.8	2993.5	2929.6	2912.6	2823.2	2729.5	2610.3	2533.6	2520.8
35°	7711.6	5118.3	3121.2	2844.5	2814.7	2780.6	2703.9	2601.7	2567.7	2550.6	2563.4
37.5°	7933.0	4888.4	2929.6	2716.7	2746.5	2682.7	2593.2	2546.4	2665.6	2635.8	2648.6
40°	8286.4	4726.6	2742.3	2640.1	2669.9	2597.5	2482.5	2465.5	2614.5	2508.1	2482.5
42.5°	8933.7	4722.3	2627.3	2525.1	2546.4	2491.0	2388.8	2380.3	2439.9	2312.2	2273.9
45°	9738.5	4871.4	2542.1	2439.9	2422.9	2414.4	2380.3	2342.0	2290.9	2124.8	2082.2
47.5°	10700.8	5114.1	2525.1	2312.2	2333.5	2405.9	2363.3	2265.4	2133.3	2026.9	2005.6
50°	11867.5	5616.5	2482.5	2218.5	2256.8	2371.8	2337.7	2201.5	2082.2	2014.1	2001.3
52.5°	13157.8	6251.0	2427.2	2073.7	2158.9	2342.0	2359.0	2231.3	2056.7	1997.1	1988.6
55°	14677.9	7187.8	2363.3	1916.2	2043.9	2312.2	2359.0	2146.1	2022.6	2022.6	2014.1
57.5°	17680.0	8874.0	2231.3	1771.4	1941.7	2256.8	2290.9	2150.4	2026.9	2026.9	2009.9
60°	22082.9	11505.6	1980.1	1660.7	1843.8	2180.2	2239.8	2086.5	1980.1	2005.6	2001.3
62.5°	25527.8	12306.1	1767.1	1554.2	1745.9	2039.7	2171.7	2018.4	1924.7	2018.4	2026.9
65°	26264.4	11497.1	1550.0	1439.3	1609.6	1903.4	2073.7	1920.4	1843.8	2026.9	2035.4
66°	26000.4	10866.9	1473.3	1405.2	1550.0	1835.3	2014.1	1886.4	1801.2	2018.4	2022.6
67.5°	24825.2	9921.6	1388.2	1332.8	1469.1	1737.3	1946.0	1839.5	1733.1	1992.8	1954.5
70°	22270.3	8414.2	1243.4	1205.1	1354.1	1575.5	1788.4	1720.3	1626.6	1835.3	1767.1
72.5°	17151.9	6723.7	1090.1	1094.4	1222.1	1409.5	1630.9	1584.0	1503.1	1609.6	1567.0
75°	10445.3	4296.5	949.6	958.1	1064.5	1251.9	1481.8	1447.8	1349.8	1409.5	1388.2
77.5°	4628.6	2129.1	800.5	817.6	902.7	1102.9	1290.2	1234.9	1132.7	1145.4	1136.9
80°	1797.0	1009.2	651.5	672.8	728.1	881.4	1068.8	1017.7	928.3	911.2	902.7
82.5°	864.4	562.1	502.5	511.0	532.3	702.6	919.8	855.9	736.7	660.0	660.0
85°	434.3	349.2	353.4	323.6	353.4	476.9	621.7	519.5	430.1	383.2	391.8
87.5°	174.6	174.6	174.6	149.0	157.6	225.7	289.6	195.9	178.8	106.5	106.5
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)