

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: P479120

Luminaire Tested: **IFLD-L-SA7D-830-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479120  
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-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

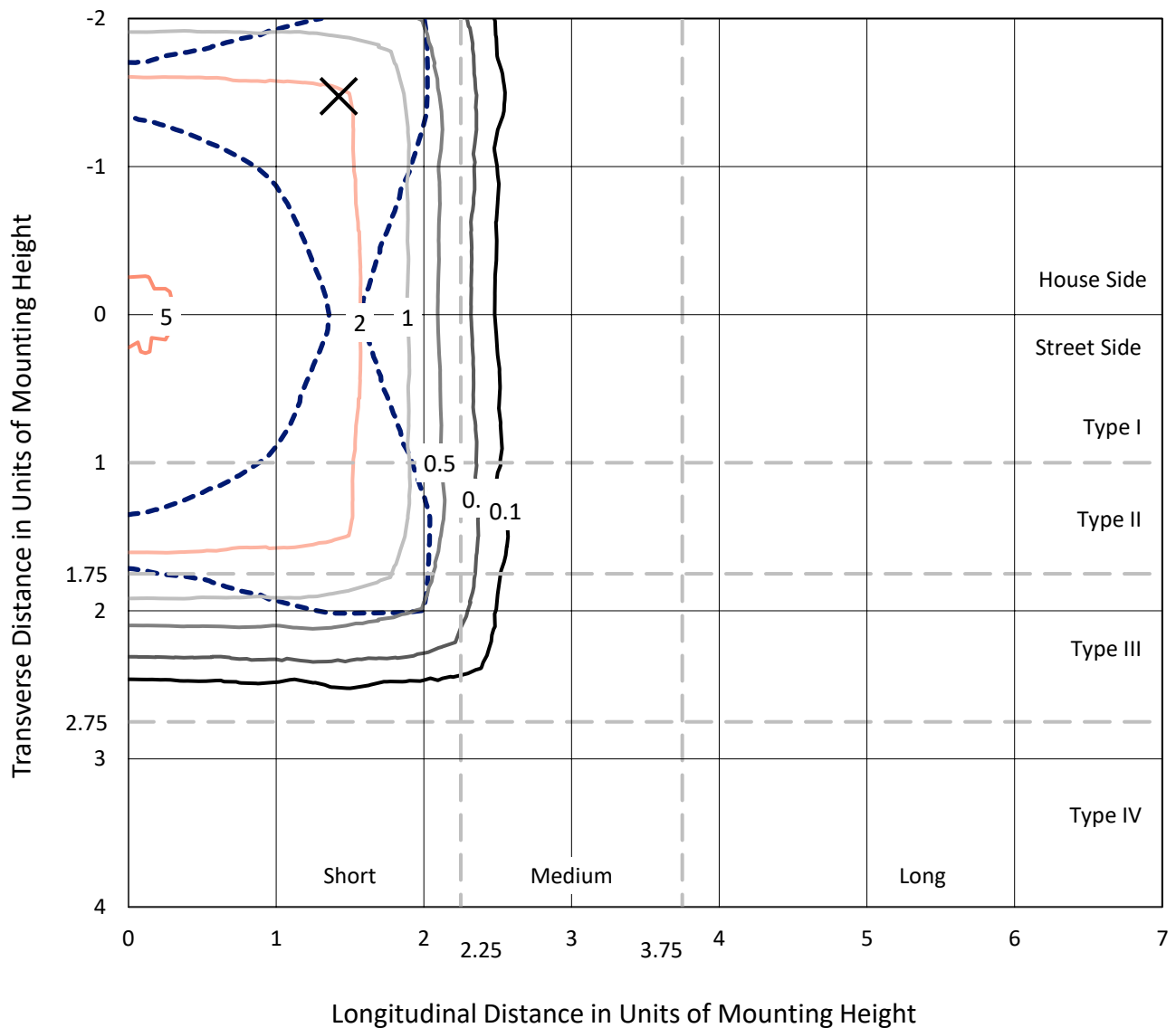
Lumens per Lamp: N/A  
Luminaire Lumens: 38658 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

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

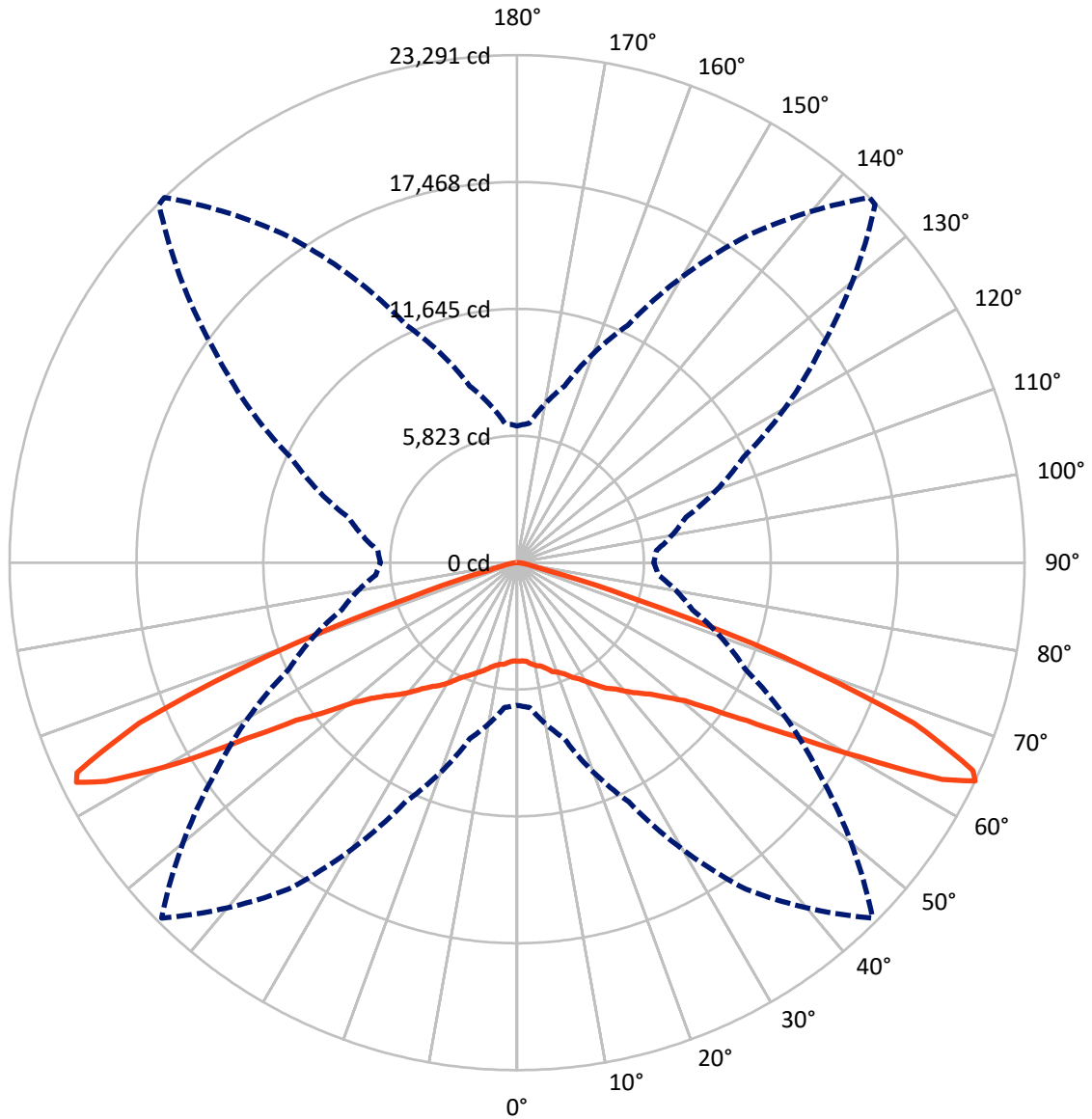
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P479120  
CATALOG NUMBER: IFLD-L-SA7D-830-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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CATALOG NUMBER: IFLD-L-SA7D-830-U-5NQ

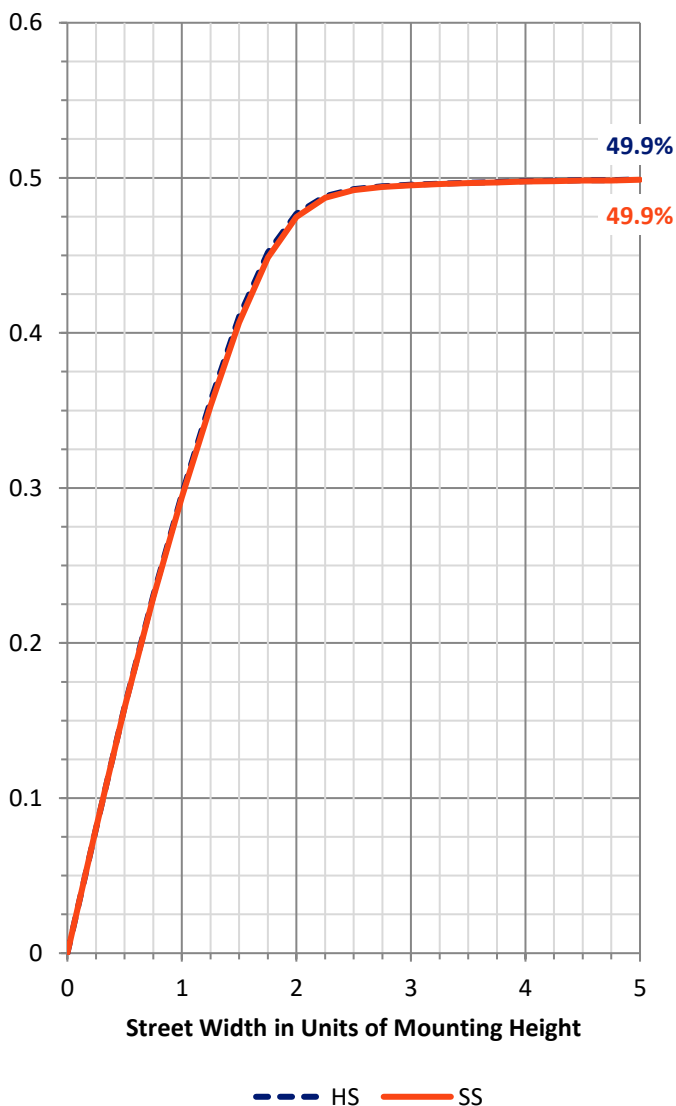
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19347.4	0.0	19347.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19310.6	0.0	19310.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38658.0	0.0	38658.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.7	1.2
10°-20°	1433.3	3.7
20°-30°	2693.8	7.0
30°-40°	4442.6	11.5
40°-50°	6947.9	18.0
50°-60°	11226.1	29.0
60°-70°	10108.3	26.1
70°-80°	1197.4	3.1
80°-90°	163.9	0.4
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°	38658.0	100.0
0°-180°	38658.0	100.0

**Coefficient of Utilization**



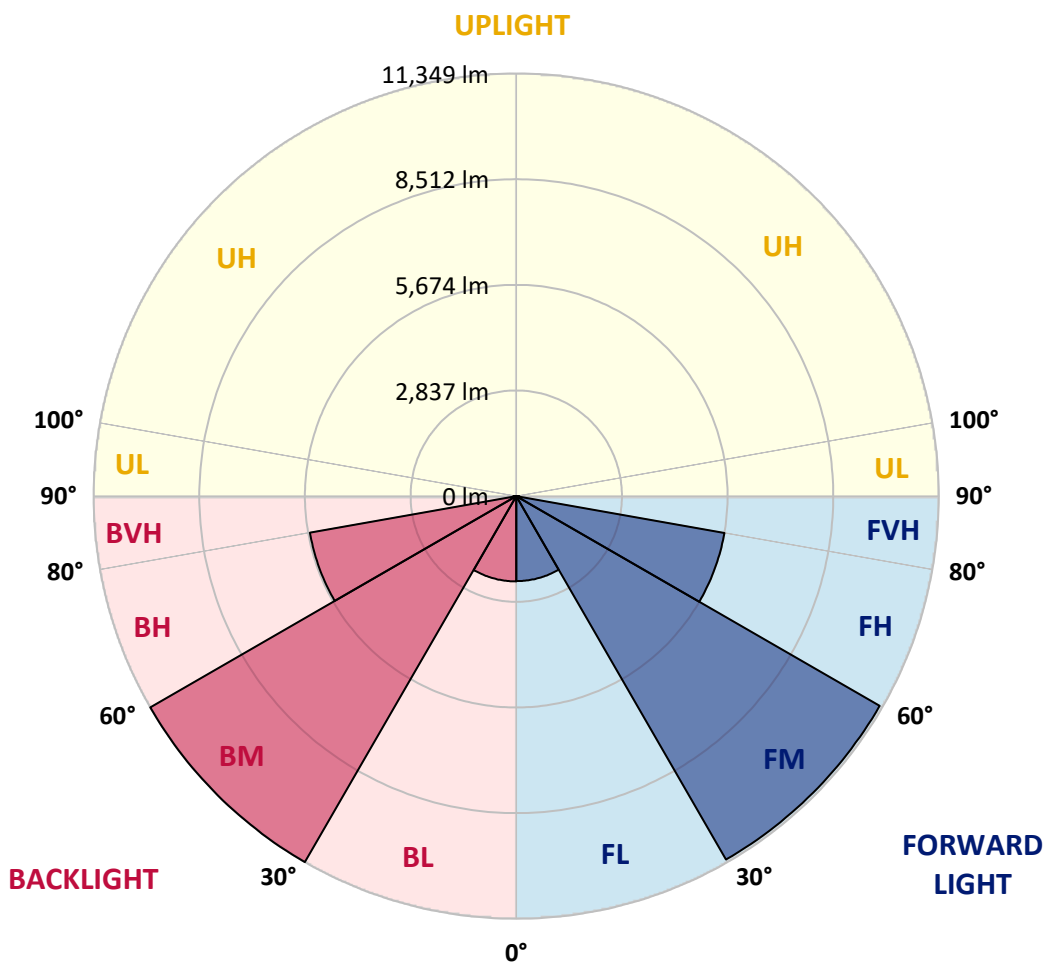
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 CATALOG NUMBER: IFLD-L-SA7D-830-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2281.5	5.9			
FM (30°-60°)	11267.6	29.1			
FH (60°-80°)	5677.4	14.7			G3/7500
FVH (80°-90°)	84.1	0.2			G1/100
BL (0°-30°)	2290.3	5.9	B3/2500		
BM (30°-60°)	11348.9	29.4	B5		
BH (60°-80°)	5628.4	14.6	B5		G3/7500
BVH (80°-90°)	79.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1
2.5°	4472.9	4481.7	4561.5	4530.5	4557.1	4508.3	4543.8	4619.2	4530.5	4597.0	4619.2
5°	4521.6	4534.9	4534.9	4566.0	4583.7	4574.8	4597.0	4566.0	4650.2	4614.7	4667.9
7.5°	4698.9	4676.8	4641.3	4667.9	4672.4	4694.5	4716.7	4756.6	4743.3	4712.2	4765.4
10°	4730.0	4712.2	4765.4	4769.9	4747.7	4730.0	4752.1	4752.1	4792.0	4800.9	4800.9
12.5°	4783.2	4800.9	4796.5	4831.9	4836.4	4823.1	4858.5	4925.0	4907.3	4920.6	4889.6
15°	4987.1	4964.9	4960.5	4996.0	5053.6	4969.4	5031.4	5027.0	5009.3	5035.9	4964.9
17.5°	5164.4	5093.5	5124.5	5182.1	5160.0	5177.7	5257.5	5186.6	5204.3	5173.3	5151.1
20°	5319.6	5261.9	5266.4	5288.5	5288.5	5341.7	5372.8	5346.2	5328.4	5324.0	5332.9
22.5°	5492.4	5426.0	5430.4	5523.5	5554.5	5536.8	5514.6	5558.9	5567.8	5532.3	5572.2
25°	5621.0	5691.9	5714.1	5758.4	5691.9	5740.7	5723.0	5807.2	5860.4	5789.5	5838.2
27.5°	5957.9	5926.9	5984.5	5980.1	6033.3	5984.5	6015.5	6042.1	6064.3	6068.7	6046.6
30°	6259.4	6272.7	6215.0	6370.2	6246.1	6325.8	6379.0	6392.3	6418.9	6418.9	6352.4
32.5°	6578.5	6551.9	6645.0	6609.6	6587.4	6649.5	6591.8	6773.6	6667.2	6729.2	6653.9
35°	6937.6	6937.6	6973.1	7070.6	6937.6	6897.7	7004.1	7079.5	7079.5	6968.6	6995.2
37.5°	7341.0	7305.5	7349.9	7474.0	7372.0	7239.0	7434.1	7465.1	7443.0	7411.9	7358.7
40°	7624.7	7615.8	7704.5	7868.5	7722.2	7695.6	7731.1	7815.3	7841.9	7873.0	7802.0
42.5°	8103.5	8143.4	8400.5	8360.6	8240.9	8147.8	8138.9	8453.7	8378.3	8298.5	8258.6
45°	8812.7	8777.3	8910.3	8914.7	8759.5	8555.6	8600.0	8888.1	9016.7	8839.3	8905.8
47.5°	9375.7	9393.5	9486.6	9677.2	9318.1	9105.3	9269.3	9734.8	9694.9	9628.4	9690.5
50°	10129.3	10209.1	10501.7	10435.2	10116.0	9854.5	10213.6	10652.4	10701.2	10457.4	10413.0
52.5°	11171.1	11295.2	11454.8	11508.0	11202.1	11109.0	11131.2	11676.4	11556.8	11321.8	11171.1
55°	12084.3	12141.9	12434.5	12873.3	12851.2	12403.4	12660.6	12864.5	12376.9	11893.7	11933.6
57.5°	12474.4	12501.0	13316.6	14194.4	14717.5	14819.4	14526.8	13839.7	12678.3	11747.4	11689.7
60°	11503.6	11756.2	12740.4	14721.9	17111.3	18290.4	16344.4	13950.6	11973.5	10843.0	10758.8
62.5°	9194.0	9207.3	10670.2	13675.7	18600.7	21690.5	17040.3	12908.8	10093.9	8812.7	8475.8
64°	6547.5	6671.6	8351.7	12106.4	18290.4	23073.6	16956.1	11547.9	8320.7	6503.2	6268.2
65°	4698.9	4871.8	6494.3	10510.6	17563.4	22909.6	16703.4	10377.6	6729.2	4964.9	4725.5
67.5°	1728.9	1799.8	2549.0	5257.5	12611.8	19522.8	13236.8	5705.2	2956.8	2105.7	1892.9
70°	802.4	806.8	944.2	1737.7	5514.6	13055.1	6317.0	2141.1	1112.7	882.2	820.1
72.5°	589.6	602.9	660.5	802.4	1622.5	5527.9	2074.6	877.7	651.6	576.3	563.0
75°	478.8	487.6	505.4	580.7	749.2	1480.6	842.3	607.3	518.7	465.5	447.7
77.5°	367.9	367.9	407.8	443.3	496.5	691.5	558.6	483.2	421.1	367.9	354.6
80°	266.0	270.4	319.2	345.8	336.9	456.6	403.4	399.0	345.8	288.1	266.0
82.5°	155.2	168.5	230.5	248.2	239.4	270.4	292.6	310.3	270.4	199.5	181.8
85°	88.7	93.1	133.0	137.4	137.4	128.6	168.5	186.2	181.8	124.1	110.8
87.5°	26.6	26.6	35.5	35.5	39.9	44.3	66.5	79.8	88.7	62.1	57.6
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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 CATALOG NUMBER: IFLD-L-SA7D-830-U-5NQ

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1	4526.1
2.5°	4597.0	4530.5	4534.9	4552.7	4495.0	4517.2	4583.7	4534.9	4521.6	4495.0	4481.7
5°	4574.8	4645.8	4619.2	4628.0	4614.7	4552.7	4543.8	4583.7	4605.9	4566.0	4645.8
7.5°	4730.0	4698.9	4663.5	4676.8	4645.8	4698.9	4734.4	4654.6	4694.5	4672.4	4628.0
10°	4818.6	4761.0	4787.6	4778.7	4756.6	4809.8	4774.3	4765.4	4730.0	4681.2	4752.1
12.5°	4849.7	4916.2	4960.5	4885.1	4898.4	4871.8	4849.7	4849.7	4809.8	4796.5	4809.8
15°	4987.1	5044.7	5027.0	5084.6	5009.3	5035.9	5062.5	4996.0	5031.4	4933.9	5009.3
17.5°	5239.8	5191.0	5253.1	5177.7	5204.3	5257.5	5173.3	5173.3	5199.9	5146.7	5080.2
20°	5399.4	5377.2	5355.0	5359.5	5315.1	5363.9	5337.3	5324.0	5284.1	5301.8	5337.3
22.5°	5550.1	5519.0	5527.9	5541.2	5572.2	5550.1	5536.8	5550.1	5452.6	5541.2	5417.1
25°	5736.3	5820.5	5793.9	5851.5	5762.9	5820.5	5816.1	5731.8	5785.0	5749.6	5723.0
27.5°	6046.6	6002.2	6042.1	5971.2	6033.3	6037.7	5984.5	6126.4	6064.3	6055.4	6037.7
30°	6445.5	6414.5	6387.9	6348.0	6396.8	6356.9	6401.2	6414.5	6356.9	6312.5	6228.3
32.5°	6671.6	6755.8	6786.9	6689.4	6693.8	6715.9	6676.1	6636.2	6671.6	6684.9	6671.6
35°	6990.8	7070.6	7088.3	7013.0	6973.1	7083.9	7004.1	7137.1	7021.8	7026.3	6906.6
37.5°	7363.2	7385.3	7536.0	7451.8	7416.4	7363.2	7509.5	7491.7	7518.3	7305.5	7411.9
40°	7784.3	7864.1	7948.3	7735.5	7731.1	7779.9	7771.0	7873.0	7824.2	7793.2	7717.8
42.5°	8245.3	8413.8	8427.1	8285.2	8196.6	8187.7	8232.0	8458.1	8462.5	8258.6	8170.0
45°	8857.1	9043.3	8994.5	8719.7	8622.1	8608.8	8826.0	8923.6	9007.8	8928.0	8852.6
47.5°	9619.5	9743.7	9708.2	9455.5	9140.8	9229.4	9442.2	9748.1	9659.4	9553.0	9464.4
50°	10435.2	10581.5	10506.1	10253.5	9952.0	9952.0	10213.6	10603.7	10577.1	10368.7	10288.9
52.5°	11339.5	11552.3	11725.2	11366.1	11113.5	11153.4	11565.6	11707.5	11641.0	11494.7	11428.2
55°	12013.3	12421.2	12775.8	12793.6	12806.8	12802.4	12908.8	13050.7	12576.3	12341.4	12102.0
57.5°	11849.3	12620.7	13835.3	14659.8	14903.6	15032.2	14996.7	14340.7	13219.1	12447.8	12527.6
60°	10679.0	11938.0	13897.4	16543.8	18317.0	18139.7	17492.5	14899.2	12864.5	11561.2	11397.2
62.5°	8520.2	10036.2	12855.6	17075.8	21960.9	21907.7	18520.9	13609.2	10718.9	9069.9	8967.9
64°	6418.9	8014.8	11468.1	16938.4	23237.6	23290.8	18259.4	12022.2	8387.2	6418.9	6263.8
65°	4911.7	6392.3	10107.2	16654.7	22962.8	22993.8	17532.4	10382.0	6374.6	4557.1	4388.6
67.5°	1954.9	2721.8	5483.6	12629.5	19717.8	19633.6	12509.8	5022.6	2438.1	1587.0	1556.0
70°	833.4	1037.3	1923.9	5984.5	13201.4	12957.6	5386.1	1631.3	904.3	758.0	753.6
72.5°	571.9	633.9	824.5	1848.5	5488.0	5359.5	1533.8	758.0	616.2	567.4	567.4
75°	461.0	505.4	598.5	775.8	1454.0	1400.8	722.6	558.6	492.1	456.6	452.2
77.5°	359.1	403.4	469.9	536.4	664.9	660.5	483.2	421.1	381.2	354.6	345.8
80°	283.7	328.0	372.4	381.2	434.4	425.6	328.0	332.5	310.3	257.1	252.7
82.5°	195.1	266.0	297.0	270.4	257.1	257.1	234.9	234.9	217.2	159.6	146.3
85°	119.7	177.3	186.2	159.6	119.7	119.7	128.6	124.1	115.3	84.2	79.8
87.5°	62.1	84.2	75.4	62.1	39.9	39.9	35.5	26.6	26.6	22.2	22.2
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)