

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: P484931

Luminaire Tested: **IFLD-L-SA7D-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484931
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

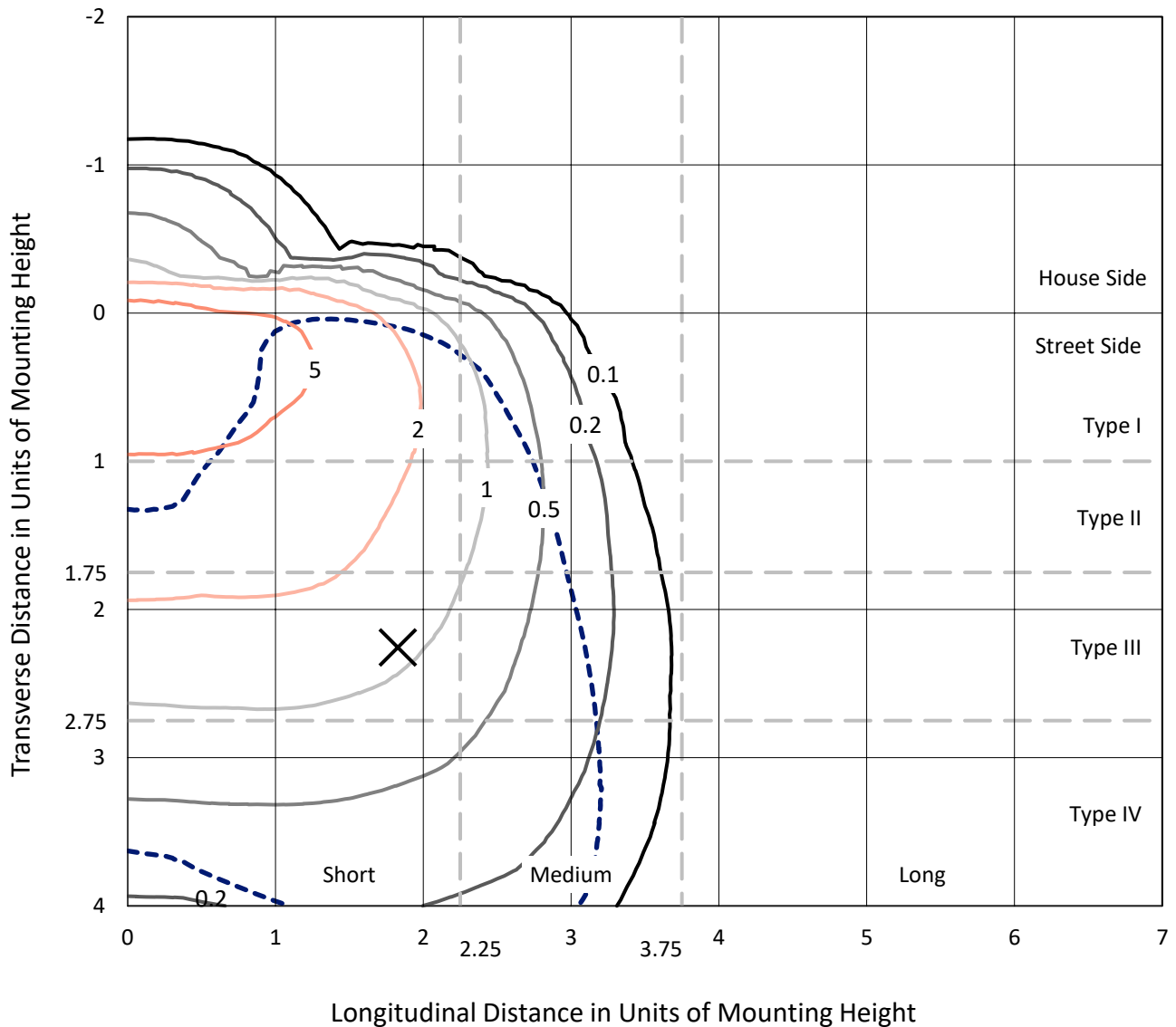
Lumens per Lamp: N/A
Luminaire Lumens: 29622.5 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

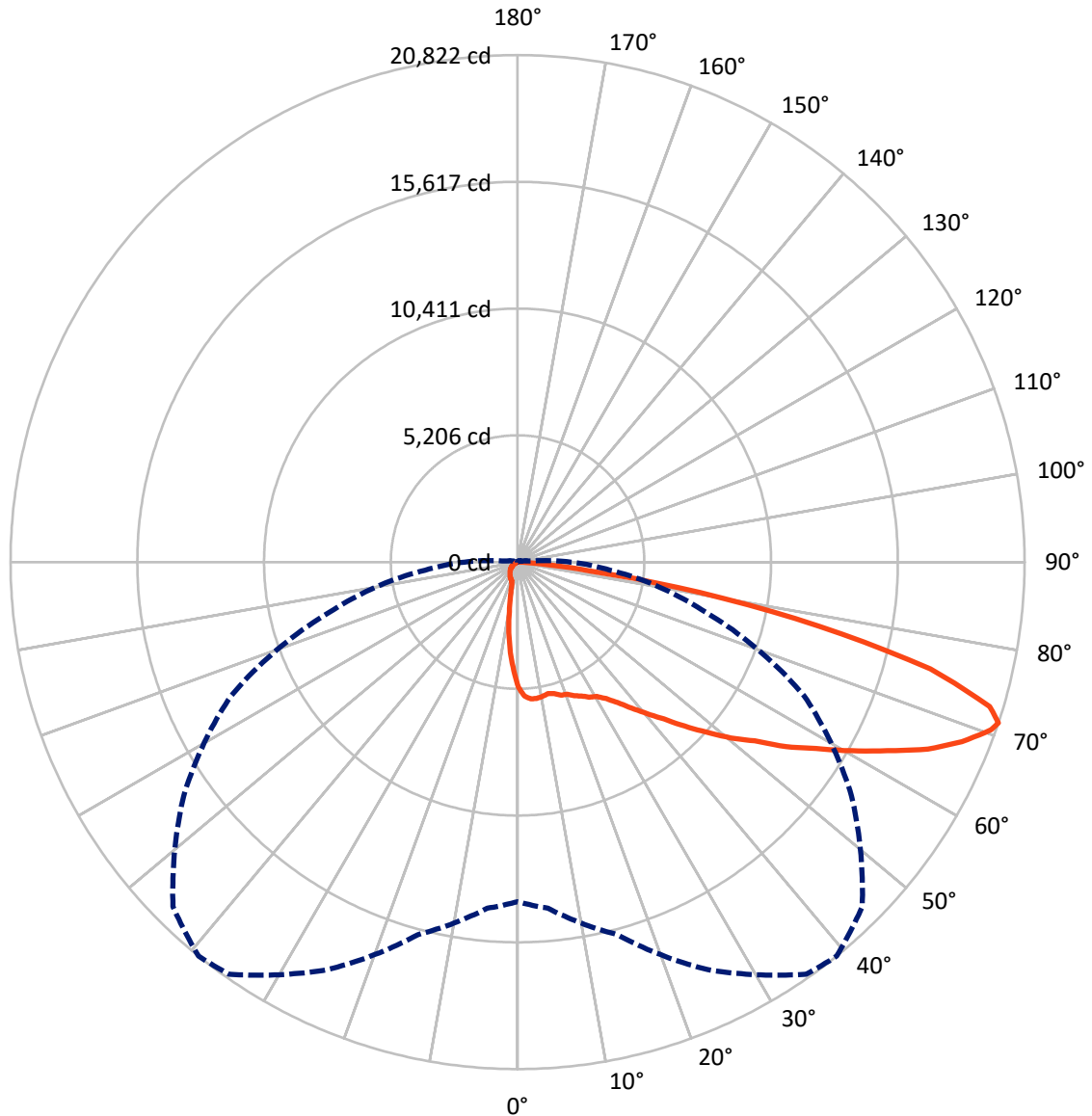
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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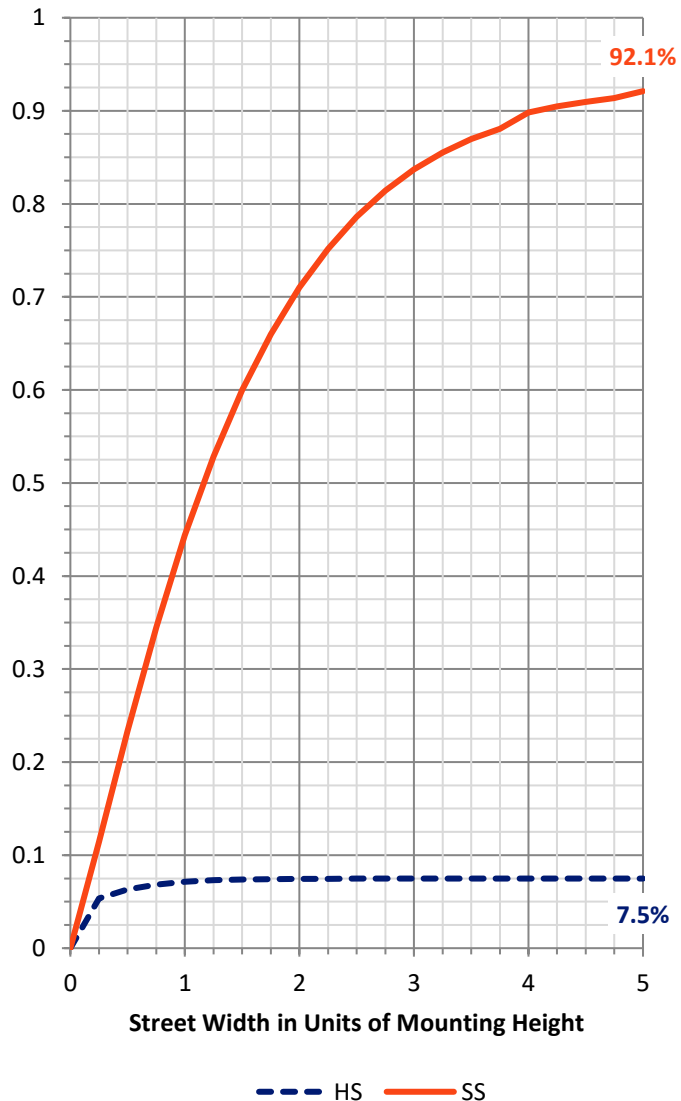
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2230.1	0.0	2230.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	27392.4	0.0	27392.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	29622.5	0.0	29622.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.1	1.5
10°-20°	1061.0	3.6
20°-30°	1703.3	5.8
30°-40°	2607.3	8.8
40°-50°	4185.2	14.1
50°-60°	6147.4	20.8
60°-70°	7742.5	26.1
70°-80°	5167.1	17.4
80°-90°	577.5	1.9
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°	29622.5	100.0
0°-180°	29622.5	100.0

Coefficient of Utilization

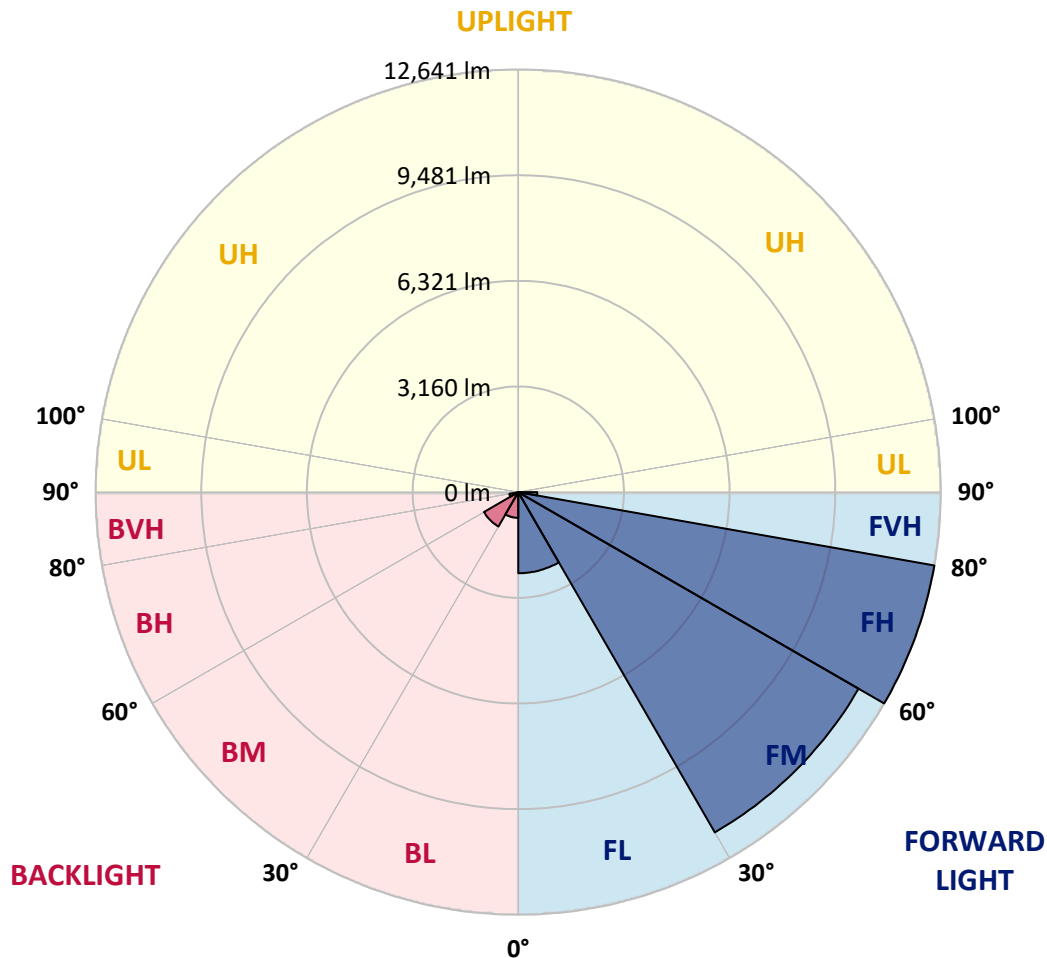


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2425.5	8.2			
FM (30°-60°)	11754.6	39.7			
FH (60°-80°)	12641.2	42.7			G5
FVH (80°-90°)	571.1	1.9			G4/750
BL (0°-30°)	769.9	2.6	B2/1000		
BM (30°-60°)	1185.4	4.0	B2/2500		
BH (60°-80°)	268.4	0.9	B1/500		G1/500
BVH (80°-90°)	6.4	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5156.0	5156.0	5156.0	5156.0	5156.0	5156.0	5156.0	5156.0	5156.0	5156.0	5156.0
2.5°	5556.2	5610.6	5556.2	5532.9	5509.6	5513.4	5451.3	5462.9	5389.1	5292.0	5214.3
5°	5731.0	5804.9	5746.6	5719.4	5715.5	5641.7	5610.6	5536.8	5447.4	5295.9	5202.6
7.5°	5715.5	5699.9	5727.1	5703.8	5653.3	5653.3	5618.4	5513.4	5424.1	5253.1	5093.8
10°	5598.9	5645.6	5622.2	5595.0	5606.7	5610.6	5544.5	5470.7	5443.5	5272.5	5012.2
12.5°	5587.3	5509.6	5595.0	5598.9	5548.4	5544.5	5536.8	5517.3	5431.9	5276.4	5031.7
15°	5548.4	5517.3	5602.8	5606.7	5618.4	5606.7	5618.4	5602.8	5517.3	5428.0	5117.1
17.5°	5579.5	5544.5	5665.0	5723.3	5696.1	5750.5	5731.0	5661.1	5587.3	5482.4	5198.7
20°	5587.3	5637.8	5769.9	5793.2	5878.7	5789.3	5785.4	5711.6	5665.0	5552.3	5249.2
22.5°	5731.0	5754.3	5917.5	5968.0	5971.9	5960.3	5863.1	5777.7	5758.2	5618.4	5260.9
25°	5948.6	6030.2	6104.0	6135.1	6146.8	6092.4	5991.4	5882.6	5835.9	5746.6	5381.3
27.5°	6333.3	6282.8	6348.8	6395.4	6263.3	6282.8	6154.5	6061.3	5995.2	5917.5	5521.2
30°	6675.2	6628.6	6632.5	6624.7	6512.0	6407.1	6372.1	6208.9	6127.3	6158.4	5738.8
32.5°	6982.1	6881.1	6966.6	6927.7	6717.9	6686.9	6659.7	6453.7	6469.3	6613.0	6065.2
35°	7265.8	7230.8	7300.8	7230.8	7090.9	7083.2	7056.0	6877.2	6962.7	7168.6	6624.7
37.5°	7526.1	7537.8	7623.2	7588.3	7599.9	7607.7	7592.2	7401.8	7646.6	8108.9	7277.4
40°	7767.0	7751.5	7961.3	8070.1	8093.4	8178.9	8178.9	8132.2	8509.1	9029.8	8182.7
42.5°	8023.4	8062.3	8334.3	8516.9	8738.4	8812.2	8913.2	8936.5	9519.3	10113.8	9107.5
45°	8443.1	8377.0	8722.8	9154.1	9348.4	9608.7	9764.1	9896.2	10599.5	11415.4	10032.2
47.5°	8975.4	8843.3	9146.3	9771.9	10222.6	10436.3	10716.1	10890.9	11578.6	12421.8	10906.4
50°	9566.0	9430.0	9577.6	10440.2	10964.7	11353.3	11710.7	11932.2	12763.7	13548.5	11543.7
52.5°	10234.3	10109.9	10133.2	11135.7	11908.9	12192.5	12662.7	12992.9	13820.5	14228.5	11769.0
55°	10945.3	10914.2	10840.4	11815.6	12736.5	13373.7	13657.3	14053.7	14904.6	14597.6	12013.8
57.5°	11660.2	11563.1	11668.0	12717.1	14065.3	14446.1	14838.5	15075.5	15506.8	14920.1	11920.5
60°	12332.4	12340.2	12487.8	13696.2	15196.0	15736.1	16089.6	15945.9	16124.6	15060.0	11706.8
62.5°	12899.7	12884.1	13257.1	14795.8	16691.9	17057.1	17321.3	16680.2	16412.1	15196.0	11333.8
65°	13408.7	13583.5	14170.2	16105.2	18098.4	18518.0	18358.7	17375.7	16691.9	14795.8	10284.8
67.5°	13793.3	14053.7	15071.6	17336.9	19388.4	19683.7	19462.2	17904.1	16361.6	13226.1	8377.0
70°	14018.7	14282.9	15716.6	18362.6	20418.0	20631.7	20111.1	17496.2	14434.4	9577.6	5225.9
71°	13948.7	14271.2	15841.0	18471.4	20662.8	20822.1	20013.9	16742.4	12981.3	8019.6	3811.6
72.5°	13315.4	13618.5	15324.2	18393.7	20367.5	20270.4	19256.3	14931.8	10218.7	5113.2	1969.9
75°	9783.6	10109.9	13152.2	15910.9	18180.0	17511.7	15584.5	10479.0	5330.8	1565.8	575.0
77.5°	4872.3	4926.7	8163.3	11551.4	13334.8	12670.4	10444.1	5843.7	1993.2	462.4	287.5
80°	2245.8	2261.3	3061.7	5983.6	8062.3	7588.3	5851.5	2883.0	901.4	244.8	225.4
82.5°	1530.9	1554.2	1845.6	2478.9	3500.8	2952.9	2370.1	1845.6	516.8	147.6	221.5
85°	279.8	256.4	1033.5	1313.3	1352.1	917.0	819.8	1596.9	194.3	85.5	194.3
87.5°	0.0	3.9	143.8	536.2	481.8	213.7	279.8	388.5	19.4	27.2	35.0
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°	5156.0	5156.0	5156.0	5156.0	5156.0	5156.0	5156.0	5156.0	5156.0	5156.0	5156.0
2.5°	5148.2	5105.5	4961.7	4802.4	4658.6	4546.0	4402.2	4336.2	4231.2	4173.0	4169.1
5°	5074.4	4957.8	4709.2	4441.1	4141.9	3893.2	3617.3	3461.9	3283.2	3228.8	3217.1
7.5°	4950.1	4783.0	4417.8	4040.9	3582.4	3143.3	2805.3	2443.9	2222.5	2129.2	2094.3
10°	4872.3	4670.3	4173.0	3609.6	2968.5	2350.7	1876.7	1492.0	1290.0	1192.8	1169.5
12.5°	4872.3	4654.8	3974.8	3197.7	2346.8	1608.6	1161.7	940.3	874.2	850.9	850.9
15°	4860.7	4623.7	3784.4	2774.2	1736.8	1080.2	866.5	819.8	812.1	808.2	804.3
17.5°	4919.0	4569.3	3590.2	2319.6	1227.8	850.9	796.5	788.7	781.0	781.0	773.2
20°	4961.7	4538.2	3357.0	1837.8	917.0	788.7	765.4	753.8	749.9	746.0	753.8
22.5°	4926.7	4491.6	3069.5	1375.4	800.4	749.9	734.3	722.7	714.9	714.9	718.8
25°	4992.8	4448.8	2782.0	1037.4	749.9	714.9	699.4	691.6	687.7	683.8	676.1
27.5°	5082.2	4468.3	2440.1	835.4	707.2	680.0	664.4	656.6	652.8	645.0	652.8
30°	5191.0	4464.4	2063.2	730.5	668.3	641.1	625.6	621.7	613.9	610.0	613.9
32.5°	5377.5	4565.4	1674.6	676.1	625.6	602.2	586.7	582.8	578.9	575.0	571.2
35°	5777.7	4689.7	1309.4	633.3	586.7	559.5	547.8	540.1	536.2	532.3	528.4
37.5°	6271.1	4965.6	998.6	594.5	547.8	520.6	509.0	505.1	489.6	485.7	481.8
40°	6888.9	5260.9	769.3	551.7	512.9	485.7	474.0	462.4	442.9	435.2	427.4
42.5°	7658.2	5548.4	633.3	512.9	474.0	454.6	435.2	415.7	400.2	384.7	376.9
45°	8427.5	5882.6	555.6	477.9	442.9	419.6	404.1	376.9	349.7	326.4	322.5
47.5°	9068.6	6003.0	509.0	439.1	411.9	392.4	369.1	334.1	295.3	272.0	268.1
50°	9546.5	5933.1	462.4	400.2	376.9	357.5	326.4	283.6	244.8	221.5	213.7
52.5°	9639.8	5626.1	419.6	369.1	341.9	318.6	283.6	237.0	194.3	171.0	167.1
55°	9573.7	5117.1	384.7	341.9	310.8	275.9	237.0	190.4	151.5	128.2	124.3
57.5°	9437.7	4514.9	345.8	307.0	272.0	237.0	194.3	155.4	112.7	89.4	89.4
60°	8975.4	3695.1	307.0	268.1	233.1	202.0	159.3	112.7	77.7	58.3	54.4
62.5°	8330.4	2840.3	268.1	229.2	202.0	167.1	124.3	81.6	46.6	31.1	31.1
65°	7153.1	1989.3	225.4	190.4	167.1	136.0	93.3	50.5	27.2	11.7	11.7
67.5°	5435.7	1231.7	186.5	159.3	143.8	108.8	66.1	31.1	11.7	3.9	0.0
70°	3120.0	641.1	147.6	128.2	112.7	81.6	46.6	15.5	7.8	0.0	0.0
71°	2179.7	474.0	132.1	112.7	101.0	73.8	38.9	11.7	3.9	0.0	0.0
72.5°	1091.8	314.7	112.7	93.3	81.6	58.3	31.1	11.7	3.9	0.0	0.0
75°	388.5	202.0	77.7	62.2	58.3	42.7	19.4	7.8	3.9	0.0	0.0
77.5°	268.1	163.2	54.4	38.9	38.9	27.2	11.7	3.9	3.9	0.0	0.0
80°	244.8	89.4	35.0	23.3	19.4	15.5	7.8	3.9	0.0	0.0	0.0
82.5°	244.8	66.1	19.4	15.5	11.7	7.8	3.9	0.0	0.0	0.0	0.0
85°	171.0	35.0	11.7	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	27.2	11.7	7.8	3.9	3.9	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)