

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: P484036

Luminaire Tested: **IFLD-L-SA8A-740-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484036
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

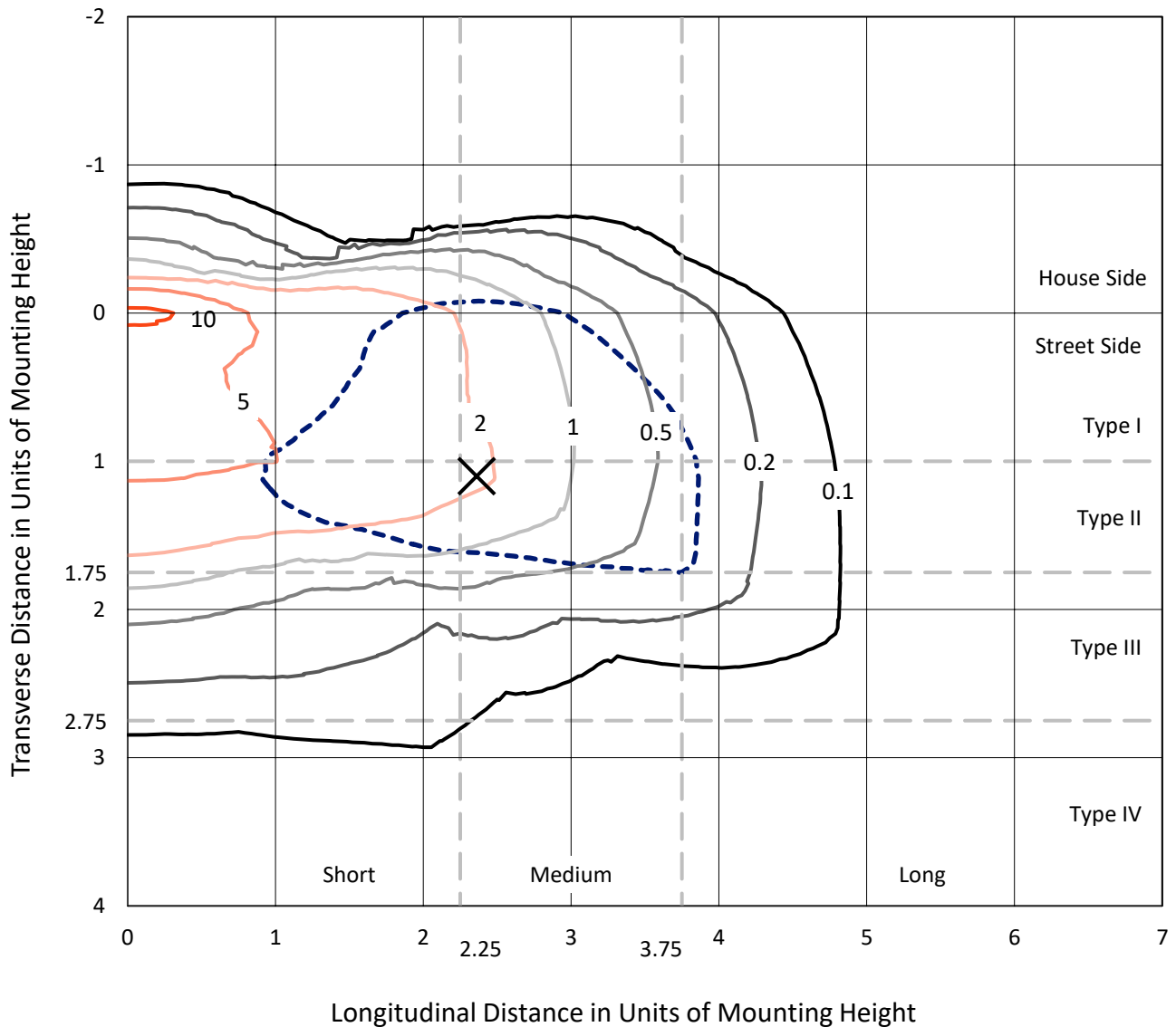
Lumens per Lamp: N/A
Luminaire Lumens: 28194.7 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

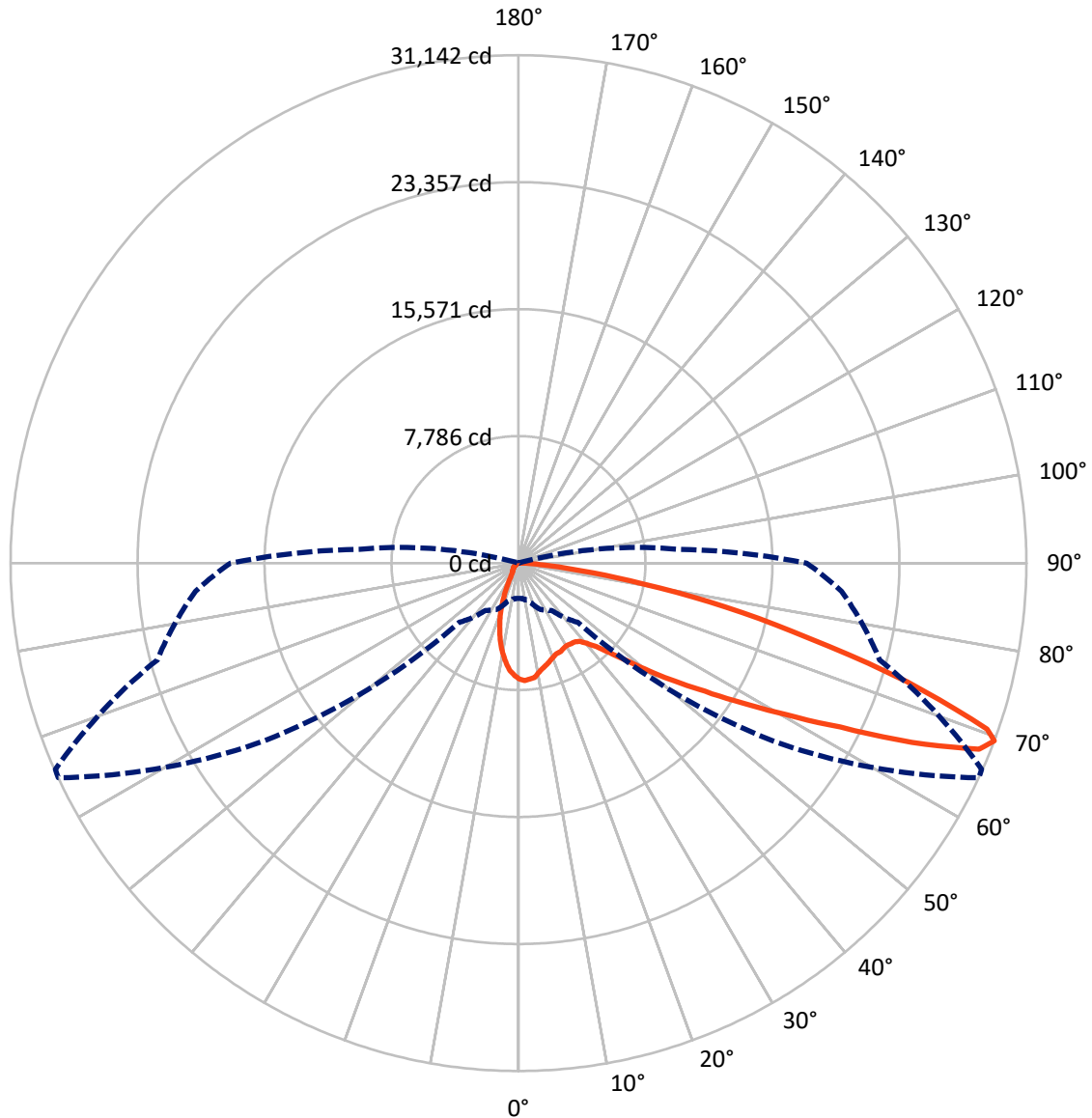
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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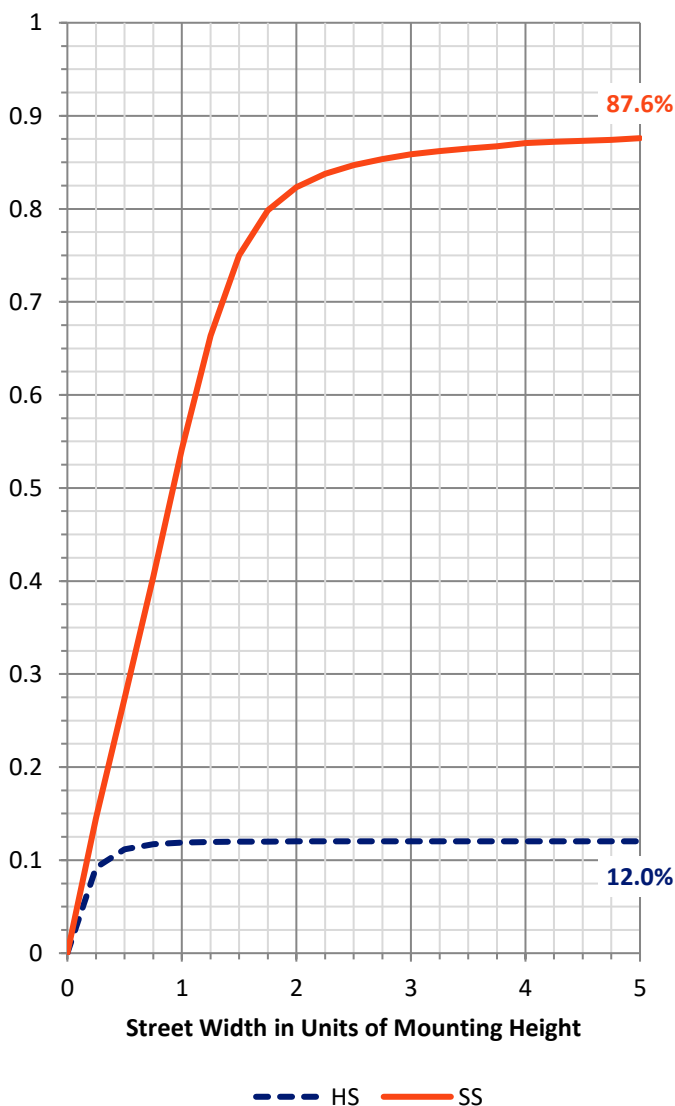
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3420.2	0.0	3420.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	24774.5	0.0	24774.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	28194.7	0.0	28194.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.7	2.1
10°-20°	1272.8	4.5
20°-30°	1772.0	6.3
30°-40°	2511.1	8.9
40°-50°	3957.4	14.0
50°-60°	6421.4	22.8
60°-70°	7171.4	25.4
70°-80°	4038.3	14.3
80°-90°	468.6	1.7
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°	28194.7	100.0
0°-180°	28194.7	100.0

Coefficient of Utilization



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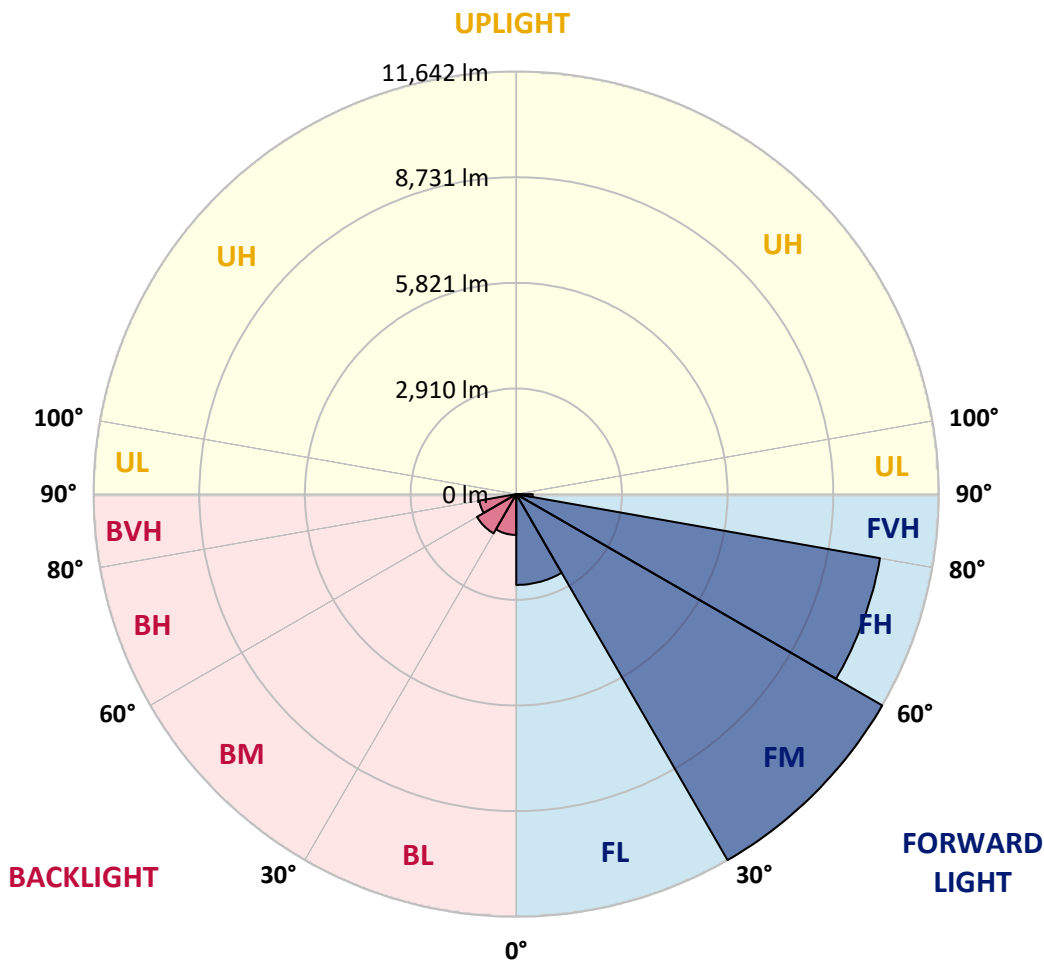
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2502.0	8.9			
FM (30°-60°)	11641.8	41.3			
FH (60°-80°)	10175.0	36.1			G4/12000
FVH (80°-90°)	455.7	1.6			G3/500
BL (0°-30°)	1124.5	4.0	B3/2500		
BM (30°-60°)	1248.0	4.4	B2/2500		
BH (60°-80°)	1034.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	12.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7108.5	7108.5	7108.5	7108.5	7108.5	7108.5	7108.5	7108.5	7108.5	7108.5	7108.5
2.5°	6846.1	6899.3	6914.6	6967.8	6994.4	7108.5	7173.2	7211.2	7192.2	7234.0	7237.8
5°	6359.3	6328.8	6408.7	6465.8	6587.5	6785.2	6986.8	7142.8	7215.0	7283.5	7272.1
7.5°	5838.2	5823.0	5902.9	6032.2	6142.5	6382.1	6705.4	7089.5	7074.3	7241.7	7291.1
10°	5480.7	5495.9	5522.5	5651.8	5815.4	6058.8	6462.0	6819.5	6899.3	7253.1	7352.0
12.5°	5153.6	5180.2	5229.7	5362.8	5552.9	5804.0	6195.7	6614.1	6735.8	7188.4	7386.2
15°	5047.1	4986.2	5085.1	5184.0	5381.8	5606.2	5937.1	6458.2	6511.4	7112.3	7443.2
17.5°	4959.6	4921.6	4967.2	5047.1	5256.3	5438.8	5750.7	6290.8	6389.7	7081.9	7435.6
20°	4986.2	4952.0	4971.0	5031.9	5127.0	5298.1	5587.2	6131.1	6237.6	6941.2	7424.2
22.5°	5062.3	5088.9	5054.7	5069.9	5100.3	5187.8	5499.7	6017.0	6108.2	6914.6	7488.9
25°	5404.6	5359.0	5313.3	5294.3	5115.6	5153.6	5473.1	6009.4	6074.0	6819.5	7435.6
27.5°	5762.1	5724.1	5705.1	5594.8	5351.4	5237.3	5476.9	5902.9	5990.3	6781.4	7371.0
30°	6195.7	6245.2	6169.1	6036.0	5697.5	5416.0	5518.7	5849.6	5971.3	6636.9	7329.1
32.5°	6652.1	6678.8	6716.8	6617.9	6180.5	5686.1	5644.2	5899.1	5906.7	6636.9	7234.0
35°	7169.4	7131.4	7230.2	7237.8	6853.7	6165.3	5883.8	5933.3	6013.2	6606.5	7199.8
37.5°	7614.4	7679.0	7793.1	7975.7	7580.2	6842.3	6256.6	6093.0	6127.3	6747.2	7226.4
40°	8101.2	8165.9	8424.5	8607.1	8382.7	7603.0	6823.3	6465.8	6492.4	6956.4	7363.4
42.5°	8637.5	8763.0	9071.1	9390.6	9329.7	8569.0	7553.5	7013.4	7002.0	7477.5	7644.8
45°	9363.9	9531.3	9866.0	10234.9	10288.2	9675.8	8527.2	7831.2	7869.2	8158.3	8226.7
47.5°	10375.6	10368.0	10695.1	11105.9	11414.0	10824.4	9691.0	8930.4	8926.6	9234.6	9090.1
50°	11353.1	11356.9	11444.4	11919.8	12718.5	12418.1	11132.5	10390.9	10349.0	10501.2	10269.1
52.5°	11805.7	11752.5	11687.8	12262.1	13722.6	14426.3	12958.1	12045.3	12011.1	11919.8	11859.0
55°	11330.3	11349.3	11345.5	11942.6	14251.3	16544.7	15301.0	13867.2	13810.1	13524.8	13608.5
57.5°	9805.1	9744.3	9877.4	10809.2	13646.6	17990.0	18651.8	16164.4	16016.1	15069.0	14878.9
60°	7298.7	7317.7	7428.0	8527.2	12144.2	18294.3	21858.1	18861.0	18222.0	16156.8	15894.4
62.5°	5096.5	5058.5	5100.3	5716.5	8683.1	17077.2	24026.0	22139.5	21523.4	17392.9	17240.8
65°	3647.4	3598.0	3765.4	4141.9	5214.4	13057.0	24334.1	26505.8	25954.3	19366.9	19001.7
67.5°	2624.3	2616.7	2810.7	3495.3	3704.5	7519.3	22052.0	30461.3	30126.6	21709.7	20074.3
69°	2171.7	2175.5	2361.9	3130.2	3537.2	5134.6	18975.1	31142.1	31081.3	22919.2	19872.7
70°	1894.1	1909.3	2126.1	2913.4	3468.7	4221.8	16358.4	30472.7	30411.9	23155.0	19207.1
72.5°	1167.6	1179.1	1464.3	2335.3	3297.5	3445.9	9782.3	24931.2	25140.4	22074.9	16548.5
75°	559.1	562.9	768.3	1688.7	3179.6	3267.1	5241.1	18397.0	18838.2	17822.7	12931.5
77.5°	296.7	296.7	368.9	897.6	2574.9	3073.1	3111.2	12977.2	13342.3	11269.4	7352.0
80°	148.3	152.1	224.4	467.8	1597.4	3012.3	2430.4	7739.9	7937.7	4598.3	2289.6
82.5°	57.1	60.9	106.5	281.5	829.1	2544.5	2133.7	3807.2	3757.7	1076.4	559.1
85°	7.6	7.6	38.0	167.3	353.7	1122.0	1761.0	1589.8	1536.6	235.8	270.0
87.5°	0.0	0.0	7.6	49.4	106.5	327.1	680.8	437.4	486.8	64.7	133.1
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°	7108.5	7108.5	7108.5	7108.5	7108.5	7108.5	7108.5	7108.5	7108.5	7108.5	7108.5
2.5°	7218.8	7139.0	7017.3	6899.3	6773.8	6621.7	6454.4	6393.5	6287.0	6279.4	6340.2
5°	7211.2	7081.9	6868.9	6617.9	6260.4	5990.3	5697.5	5484.5	5320.9	5214.4	5241.1
7.5°	7249.3	7093.3	6724.4	6184.3	5724.1	5187.8	4735.2	4423.3	4138.1	3997.4	3982.1
10°	7188.4	6979.2	6439.1	5682.3	5005.3	4256.0	3594.2	3175.8	2749.8	2593.9	2601.5
12.5°	7222.6	6929.8	6131.1	5165.0	4233.2	3259.5	2468.4	1897.9	1498.5	1369.2	1354.0
15°	7245.5	6823.3	5834.4	4545.0	3377.4	2221.2	1430.1	1076.4	950.8	928.0	924.2
17.5°	7158.0	6694.0	5416.0	3932.7	2502.6	1350.2	950.8	878.6	855.8	840.5	832.9
20°	7154.2	6617.9	5054.7	3305.1	1669.7	920.4	821.5	794.9	760.7	749.3	749.3
22.5°	7089.5	6458.2	4621.1	2616.7	1064.9	791.1	737.9	696.0	658.0	642.8	639.0
25°	7070.5	6271.8	4214.2	1966.4	810.1	707.4	654.2	593.3	547.7	524.9	513.5
27.5°	7017.3	6112.0	3803.4	1384.4	707.4	631.4	562.9	498.2	445.0	410.8	407.0
30°	6827.1	5944.7	3347.0	958.5	642.8	559.1	483.0	407.0	353.7	330.9	323.3
32.5°	6747.2	5788.8	2848.7	737.9	585.7	494.4	407.0	338.5	296.7	273.8	270.0
35°	6652.1	5560.6	2365.7	642.8	532.5	429.8	342.3	285.3	251.0	232.0	232.0
37.5°	6663.5	5378.0	1913.1	581.9	475.4	368.9	292.9	243.4	213.0	194.0	194.0
40°	6629.3	5233.5	1487.1	528.7	422.2	315.7	247.2	205.4	178.8	159.7	155.9
42.5°	6785.2	5195.4	1122.0	483.0	368.9	270.0	213.0	175.0	148.3	125.5	125.5
45°	7047.7	5256.3	874.8	441.2	315.7	232.0	182.6	144.5	117.9	102.7	98.9
47.5°	7747.5	5495.9	684.6	407.0	270.0	201.6	152.1	117.9	95.1	79.9	76.1
50°	8763.0	6032.2	581.9	357.5	228.2	171.2	125.5	91.3	76.1	60.9	57.1
52.5°	10208.3	6933.6	528.7	315.7	190.2	140.7	98.9	72.3	57.1	45.6	41.8
55°	11782.9	8059.4	479.2	266.2	159.7	114.1	79.9	57.1	41.8	30.4	26.6
57.5°	13011.4	9033.0	437.4	220.6	129.3	91.3	60.9	41.8	30.4	19.0	15.2
60°	14354.0	9717.7	384.1	175.0	106.5	68.5	45.6	30.4	22.8	11.4	11.4
62.5°	15738.4	10520.2	315.7	136.9	83.7	53.2	34.2	22.8	15.2	3.8	3.8
65°	17662.9	11147.7	243.4	106.5	64.7	38.0	26.6	19.0	7.6	0.0	0.0
67.5°	18206.8	10839.7	178.8	83.7	45.6	26.6	19.0	11.4	3.8	0.0	0.0
69°	17662.9	9763.3	155.9	72.3	38.0	22.8	15.2	7.6	3.8	0.0	0.0
70°	16670.3	8926.6	136.9	60.9	34.2	22.8	11.4	7.6	3.8	0.0	0.0
72.5°	13943.2	6846.1	106.5	45.6	26.6	19.0	11.4	7.6	0.0	0.0	0.0
75°	10227.3	4229.4	79.9	34.2	22.8	15.2	11.4	7.6	0.0	0.0	0.0
77.5°	5480.7	1544.2	57.1	22.8	15.2	11.4	11.4	7.6	0.0	0.0	0.0
80°	1502.3	456.4	41.8	15.2	11.4	7.6	7.6	3.8	0.0	0.0	0.0
82.5°	410.8	117.9	26.6	15.2	11.4	7.6	3.8	0.0	0.0	0.0	0.0
85°	220.6	45.6	15.2	11.4	7.6	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	114.1	15.2	11.4	7.6	7.6	3.8	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)