

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: P484700

Luminaire Tested: **IFLD-L-SA8B-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484700
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

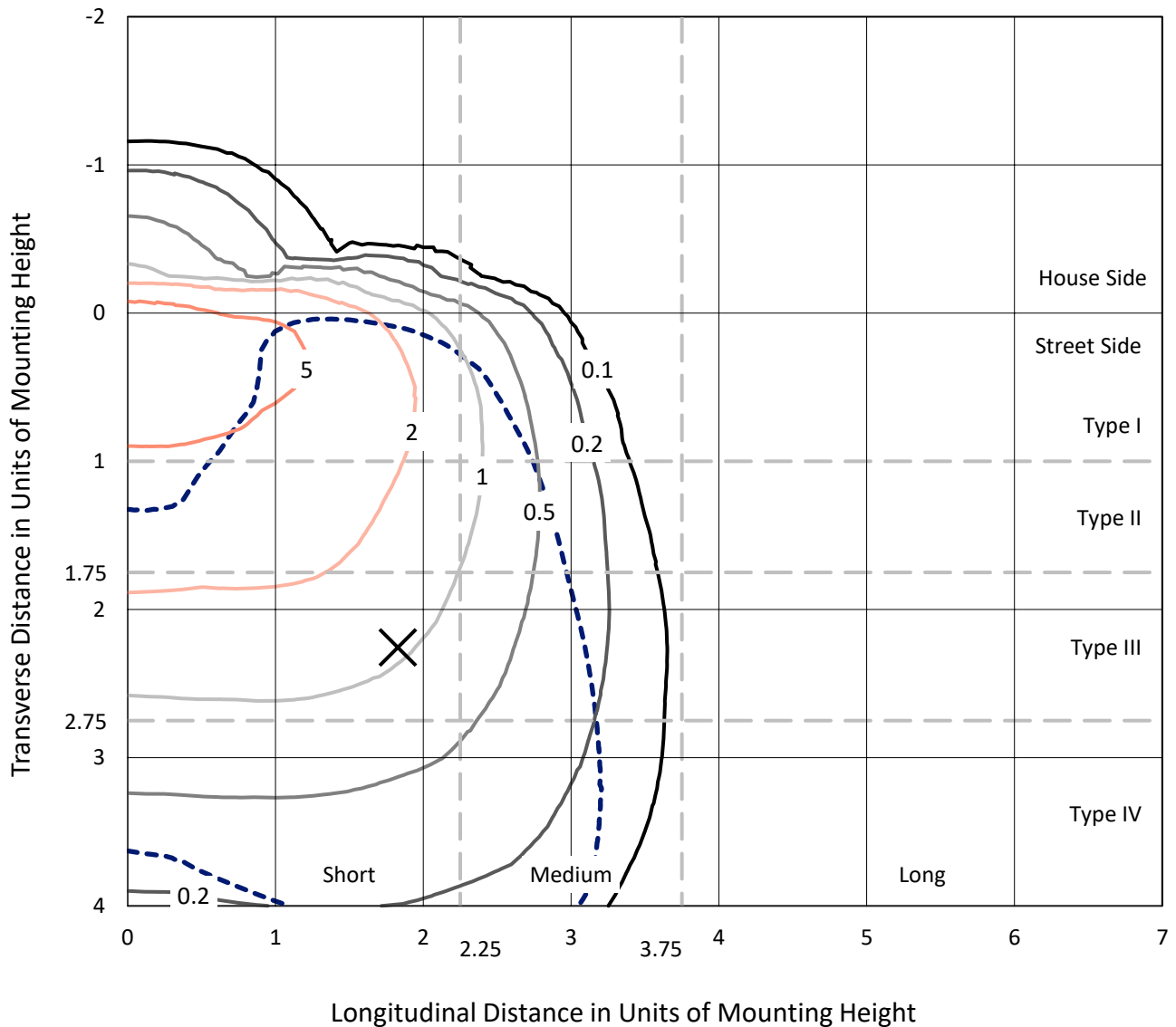
Lumens per Lamp: N/A
Luminaire Lumens: 28118 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

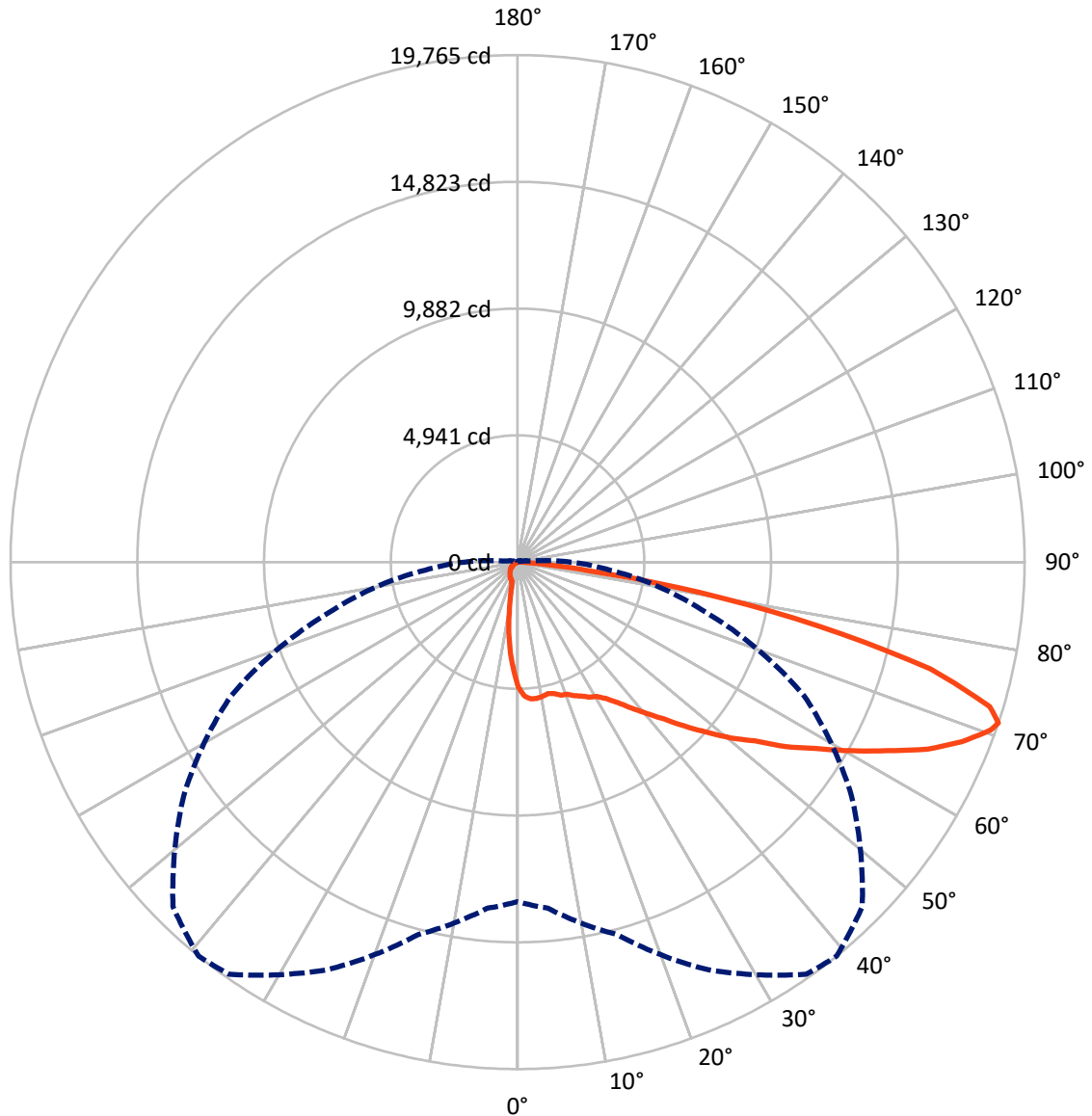
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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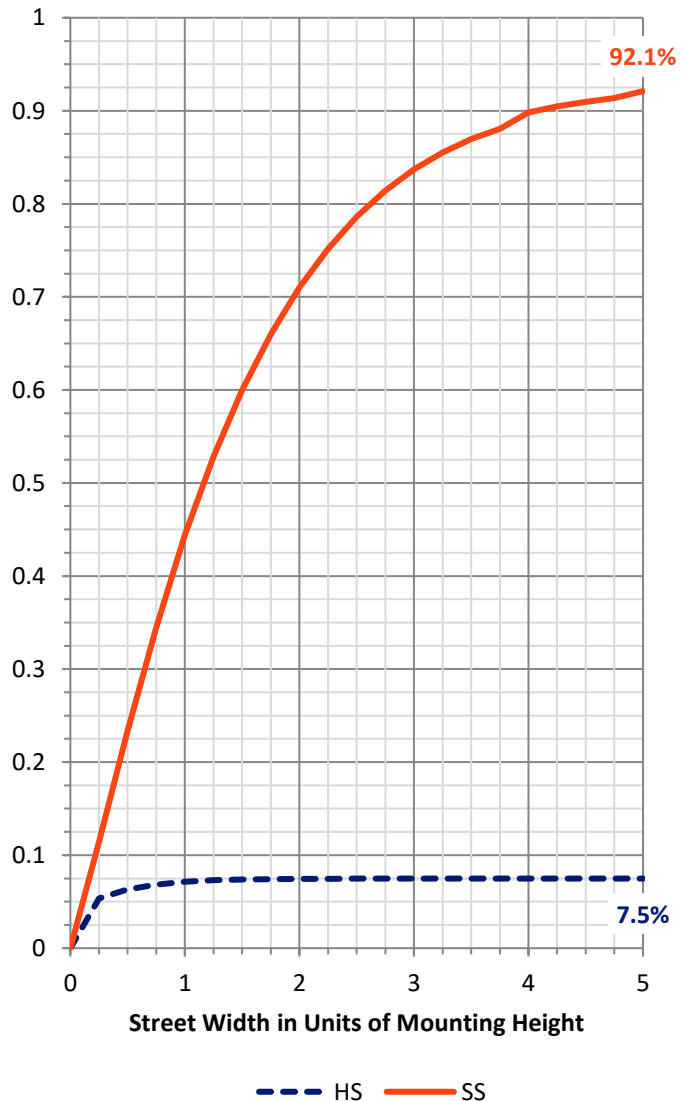
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2116.8	0.0	2116.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	26001.1	0.0	26001.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	28118.0	0.0	28118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.2	1.5
10°-20°	1007.1	3.6
20°-30°	1616.8	5.8
30°-40°	2474.9	8.8
40°-50°	3972.7	14.1
50°-60°	5835.2	20.8
60°-70°	7349.2	26.1
70°-80°	4904.7	17.4
80°-90°	548.1	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°	28118.0	100.0
0°-180°	28118.0	100.0

Coefficient of Utilization



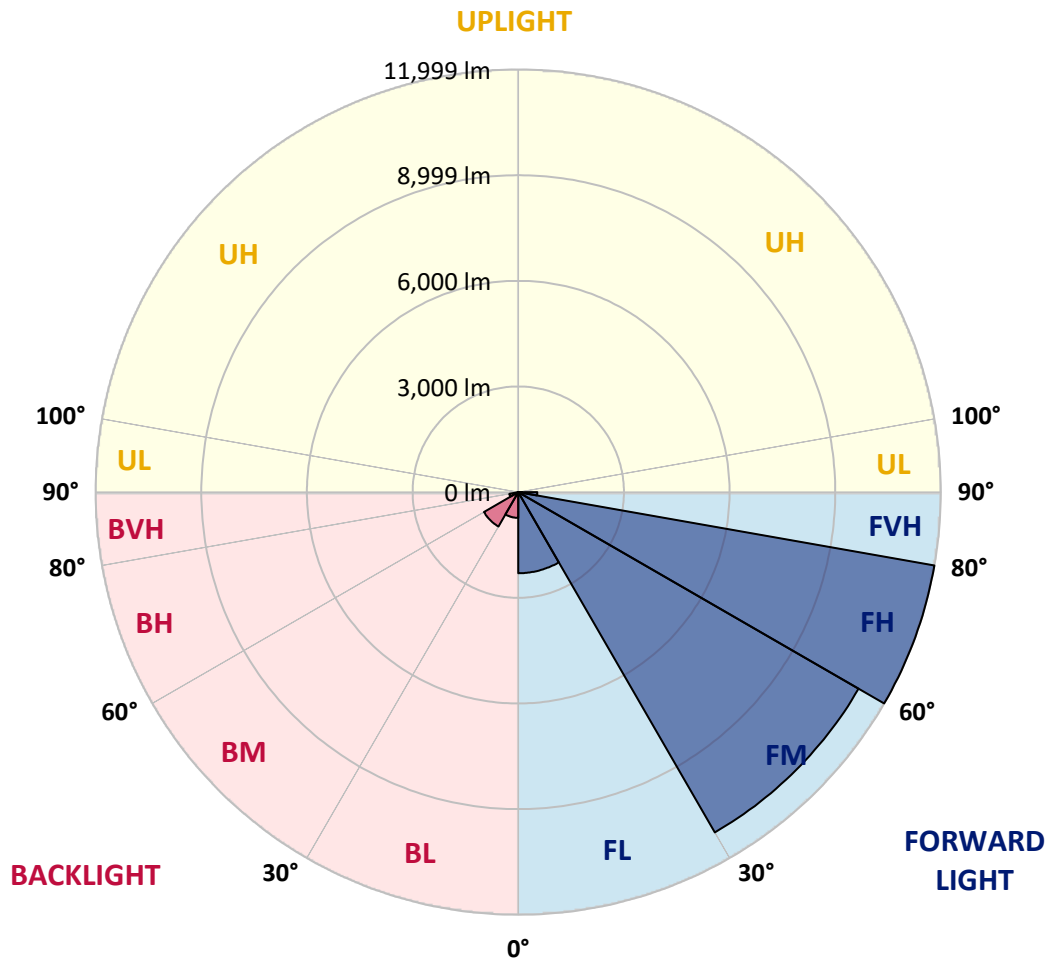
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2302.3	8.2			
FM (30°-60°)	11157.6	39.7			
FH (60°-80°)	11999.2	42.7			G4/12000
FVH (80°-90°)	542.1	1.9			G4/750
BL (0°-30°)	730.8	2.6	B2/1000		
BM (30°-60°)	1125.2	4.0	B2/2500		
BH (60°-80°)	254.8	0.9	B1/500		G1/500
BVH (80°-90°)	6.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1
2.5°	5274.0	5325.6	5274.0	5251.9	5229.7	5233.4	5174.4	5185.5	5115.4	5023.2	4949.4
5°	5440.0	5510.0	5454.7	5428.9	5425.2	5355.1	5325.6	5255.5	5170.7	5026.9	4938.4
7.5°	5425.2	5410.5	5436.3	5414.1	5366.2	5366.2	5333.0	5233.4	5148.6	4986.3	4835.1
10°	5314.6	5358.8	5336.7	5310.9	5321.9	5325.6	5262.9	5192.9	5167.0	5004.8	4757.7
12.5°	5303.5	5229.7	5310.9	5314.6	5266.6	5262.9	5255.5	5237.1	5156.0	5008.4	4776.1
15°	5266.6	5237.1	5318.2	5321.9	5333.0	5321.9	5333.0	5318.2	5237.1	5152.3	4857.2
17.5°	5296.1	5262.9	5377.3	5432.6	5406.8	5458.4	5440.0	5373.6	5303.5	5203.9	4934.7
20°	5303.5	5351.4	5476.8	5499.0	5580.1	5495.3	5491.6	5421.5	5377.3	5270.3	4982.6
22.5°	5440.0	5462.1	5617.0	5664.9	5668.6	5657.6	5565.4	5484.2	5465.8	5333.0	4993.7
25°	5646.5	5723.9	5794.0	5823.5	5834.6	5782.9	5687.1	5583.8	5539.5	5454.7	5108.0
27.5°	6011.6	5963.7	6026.4	6070.6	5945.2	5963.7	5842.0	5753.4	5690.7	5617.0	5240.8
30°	6336.2	6291.9	6295.6	6288.2	6181.3	6081.7	6048.5	5893.6	5816.1	5845.6	5447.3
32.5°	6627.5	6531.6	6612.8	6575.9	6376.7	6347.2	6321.4	6125.9	6140.7	6277.2	5757.1
35°	6896.8	6863.6	6929.9	6863.6	6730.8	6723.4	6697.6	6527.9	6609.1	6804.6	6288.2
37.5°	7143.9	7154.9	7236.1	7202.9	7213.9	7221.3	7206.6	7025.8	7258.2	7697.1	6907.8
40°	7372.5	7357.8	7556.9	7660.2	7682.3	7763.5	7763.5	7719.2	8077.0	8571.2	7767.1
42.5°	7615.9	7652.8	7911.0	8084.3	8294.5	8364.6	8460.5	8482.6	9035.9	9600.1	8644.9
45°	8014.3	7951.6	8279.8	8689.2	8873.6	9120.7	9268.2	9393.6	10061.2	10835.7	9522.7
47.5°	8519.5	8394.1	8681.8	9275.6	9703.4	9906.3	10171.8	10337.8	10990.6	11790.9	10352.5
50°	9080.1	8951.0	9091.2	9909.9	10407.8	10776.6	11115.9	11326.2	12115.4	12860.4	10957.4
52.5°	9714.5	9596.4	9618.6	10570.1	11304.0	11573.3	12019.5	12333.0	13118.6	13505.8	11171.3
55°	10389.4	10359.9	10289.8	11215.5	12089.6	12694.5	12963.7	13339.9	14147.6	13856.2	11403.6
57.5°	11068.0	10975.8	11075.4	12071.2	13350.9	13712.4	14084.9	14309.8	14719.2	14162.3	11315.1
60°	11706.0	11713.4	11853.6	13000.6	14424.2	14936.8	15272.4	15136.0	15305.6	14295.1	11112.3
62.5°	12244.5	12229.8	12583.8	14044.3	15844.1	16190.8	16441.6	15833.0	15578.6	14424.2	10758.2
65°	12727.7	12893.6	13450.5	15287.2	17179.2	17577.5	17426.3	16493.2	15844.1	14044.3	9762.4
67.5°	13092.8	13339.9	14306.2	16456.3	18403.6	18683.9	18473.7	16994.8	15530.6	12554.3	7951.6
70°	13306.7	13557.5	14918.4	17430.0	19381.0	19583.8	19089.6	16607.5	13701.3	9091.2	4960.5
71°	13240.3	13546.4	15036.4	17533.3	19613.3	19764.6	18997.4	15892.0	12322.0	7612.2	3618.0
72.5°	12639.1	12926.8	14545.9	17459.5	19333.0	19240.8	18278.2	14173.4	9699.7	4853.5	1869.9
75°	9286.6	9596.4	12484.2	15102.8	17256.6	16622.3	14793.0	9946.8	5060.1	1486.3	545.8
77.5°	4624.9	4676.5	7748.7	10964.7	12657.6	12026.9	9913.6	5546.9	1892.0	438.9	272.9
80°	2131.7	2146.5	2906.2	5679.7	7652.8	7202.9	5554.3	2736.6	855.6	232.4	213.9
82.5°	1453.1	1475.2	1751.8	2353.0	3323.0	2803.0	2249.7	1751.8	490.5	140.1	210.2
85°	265.5	243.4	981.0	1246.6	1283.5	870.4	778.2	1515.8	184.4	81.1	184.4
87.5°	0.0	3.7	136.5	509.0	457.3	202.8	265.5	368.8	18.4	25.8	33.2
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°	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1
2.5°	4886.7	4846.2	4709.7	4558.5	4422.0	4315.1	4178.6	4115.9	4016.3	3961.0	3957.3
5°	4816.7	4706.0	4470.0	4215.5	3931.5	3695.5	3433.6	3286.1	3116.4	3064.8	3053.8
7.5°	4698.6	4540.1	4193.4	3835.6	3400.4	2983.7	2662.8	2319.8	2109.6	2021.1	1987.9
10°	4624.9	4433.1	3961.0	3426.2	2817.7	2231.3	1781.4	1416.2	1224.5	1132.2	1110.1
12.5°	4624.9	4418.3	3772.9	3035.3	2227.6	1526.9	1102.7	892.5	829.8	807.7	807.7
15°	4613.8	4388.8	3592.2	2633.3	1648.6	1025.3	822.4	778.2	770.8	767.1	763.4
17.5°	4669.1	4337.2	3407.8	2201.8	1165.4	807.7	756.1	748.7	741.3	741.3	733.9
20°	4709.7	4307.7	3186.5	1744.5	870.4	748.7	726.6	715.5	711.8	708.1	715.5
22.5°	4676.5	4263.4	2913.6	1305.6	759.7	711.8	697.1	686.0	678.6	678.6	682.3
25°	4739.2	4222.9	2640.7	984.7	711.8	678.6	663.9	656.5	652.8	649.1	641.7
27.5°	4824.0	4241.3	2316.1	792.9	671.2	645.4	630.7	623.3	619.6	612.2	619.6
30°	4927.3	4237.6	1958.4	693.4	634.4	608.5	593.8	590.1	582.7	579.0	582.7
32.5°	5104.3	4333.5	1589.6	641.7	593.8	571.7	556.9	553.2	549.5	545.8	542.2
35°	5484.2	4451.5	1242.9	601.2	556.9	531.1	520.0	512.6	509.0	505.3	501.6
37.5°	5952.6	4713.4	947.8	564.3	520.0	494.2	483.1	479.5	464.7	461.0	457.3
40°	6539.0	4993.7	730.2	523.7	486.8	461.0	449.9	438.9	420.4	413.1	405.7
42.5°	7269.3	5266.6	601.2	486.8	449.9	431.5	413.1	394.6	379.9	365.1	357.7
45°	7999.5	5583.8	527.4	453.6	420.4	398.3	383.6	357.7	331.9	309.8	306.1
47.5°	8608.0	5698.1	483.1	416.8	390.9	372.5	350.4	317.2	280.3	258.2	254.5
50°	9061.7	5631.7	438.9	379.9	357.7	339.3	309.8	269.2	232.4	210.2	202.8
52.5°	9150.2	5340.4	398.3	350.4	324.6	302.4	269.2	225.0	184.4	162.3	158.6
55°	9087.5	4857.2	365.1	324.6	295.0	261.9	225.0	180.7	143.8	121.7	118.0
57.5°	8958.4	4285.6	328.2	291.4	258.2	225.0	184.4	147.5	107.0	84.8	84.8
60°	8519.5	3507.4	291.4	254.5	221.3	191.8	151.2	107.0	73.8	55.3	51.6
62.5°	7907.3	2696.0	254.5	217.6	191.8	158.6	118.0	77.5	44.3	29.5	29.5
65°	6789.8	1888.3	213.9	180.7	158.6	129.1	88.5	47.9	25.8	11.1	11.1
67.5°	5159.7	1169.1	177.0	151.2	136.5	103.3	62.7	29.5	11.1	3.7	0.0
70°	2961.5	608.5	140.1	121.7	107.0	77.5	44.3	14.8	7.4	0.0	0.0
71°	2069.0	449.9	125.4	107.0	95.9	70.1	36.9	11.1	3.7	0.0	0.0
72.5°	1036.4	298.7	107.0	88.5	77.5	55.3	29.5	11.1	3.7	0.0	0.0
75°	368.8	191.8	73.8	59.0	55.3	40.6	18.4	7.4	3.7	0.0	0.0
77.5°	254.5	154.9	51.6	36.9	36.9	25.8	11.1	3.7	3.7	0.0	0.0
80°	232.4	84.8	33.2	22.1	18.4	14.8	7.4	3.7	0.0	0.0	0.0
82.5°	232.4	62.7	18.4	14.8	11.1	7.4	3.7	0.0	0.0	0.0	0.0
85°	162.3	33.2	11.1	11.1	7.4	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	25.8	11.1	7.4	3.7	3.7	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)