

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: P484179

Luminaire Tested: **IFLD-S-SA6C-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484179
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

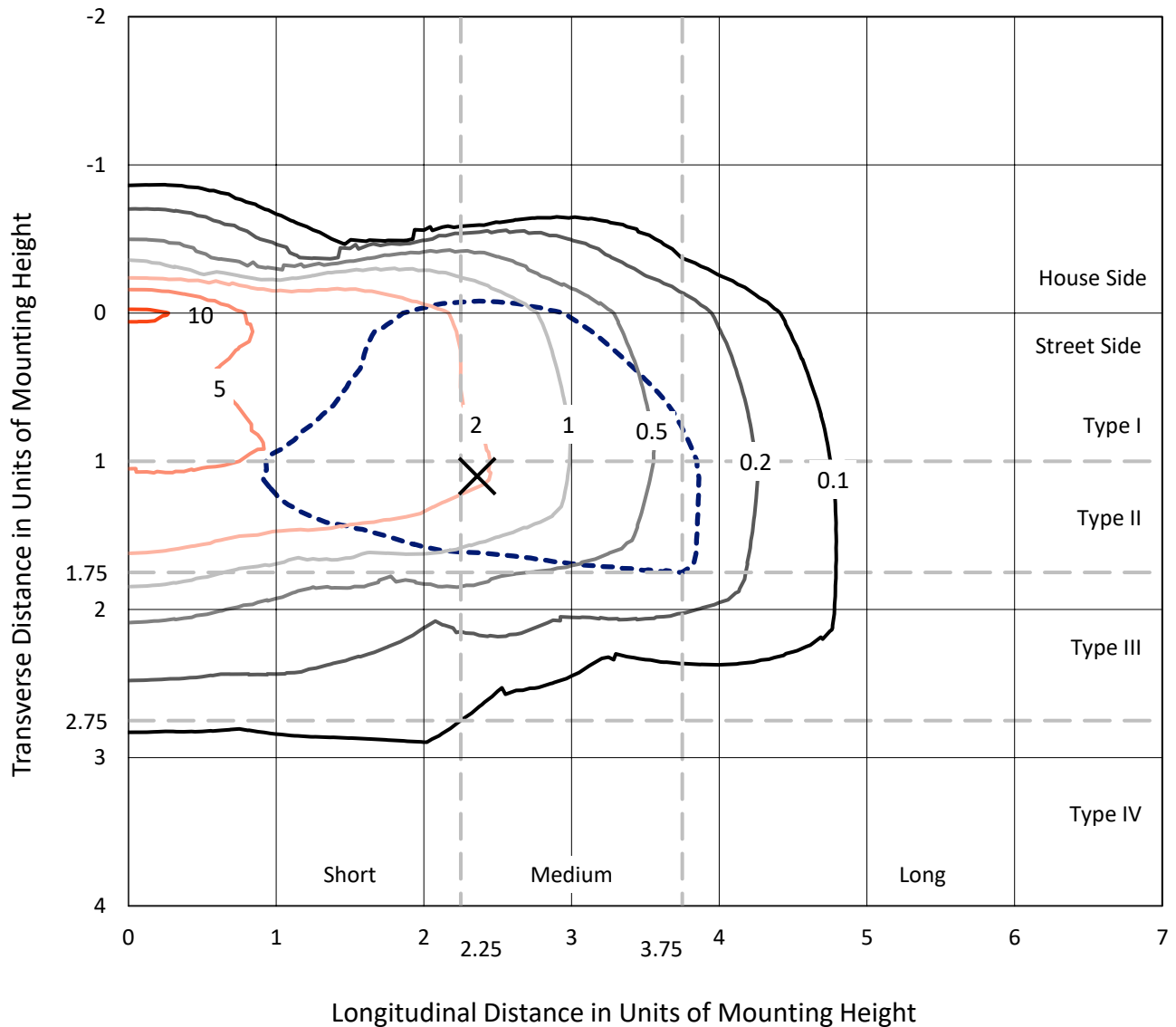
Lumens per Lamp: N/A
Luminaire Lumens: 27174.8 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5
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

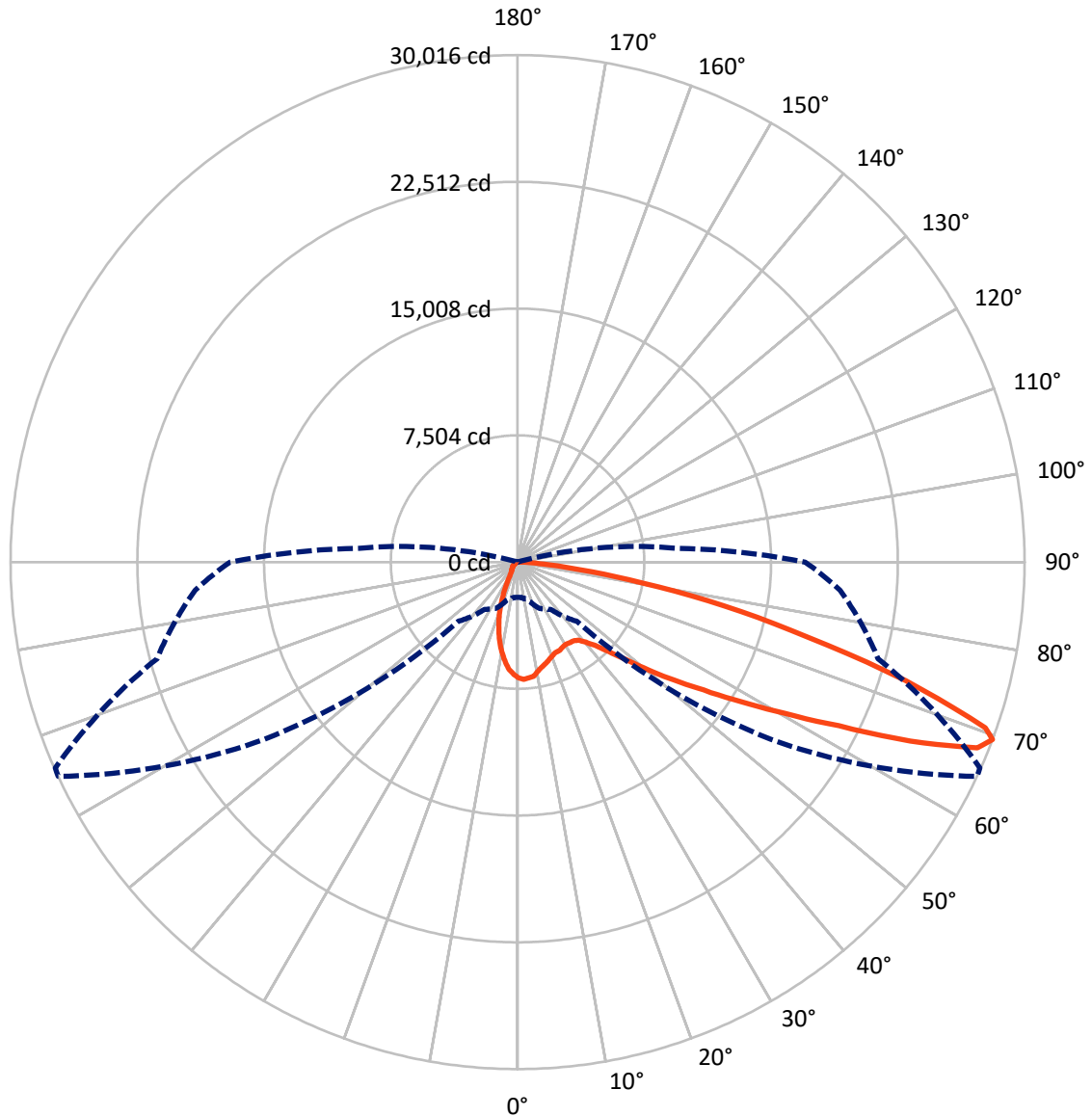
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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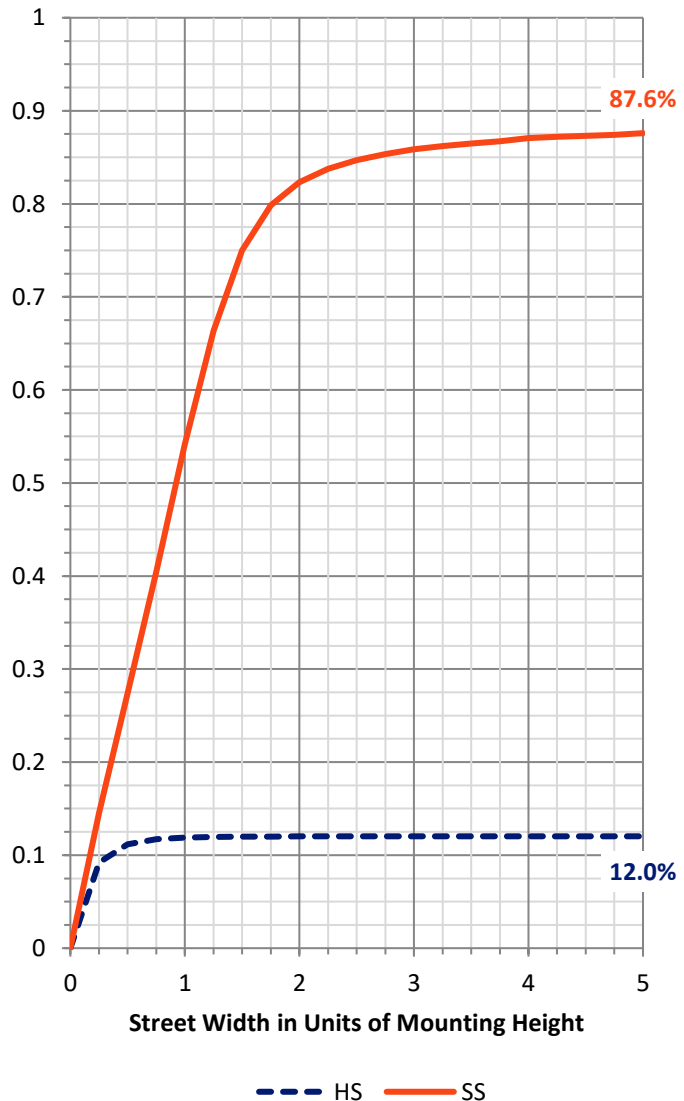
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3296.5	0.0	3296.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	23878.3	0.0	23878.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	27174.8	0.0	27174.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.7	2.1
10°-20°	1226.7	4.5
20°-30°	1707.9	6.3
30°-40°	2420.2	8.9
40°-50°	3814.2	14.0
50°-60°	6189.1	22.8
60°-70°	6912.0	25.4
70°-80°	3892.3	14.3
80°-90°	451.6	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°	27174.8	100.0
0°-180°	27174.8	100.0

Coefficient of Utilization



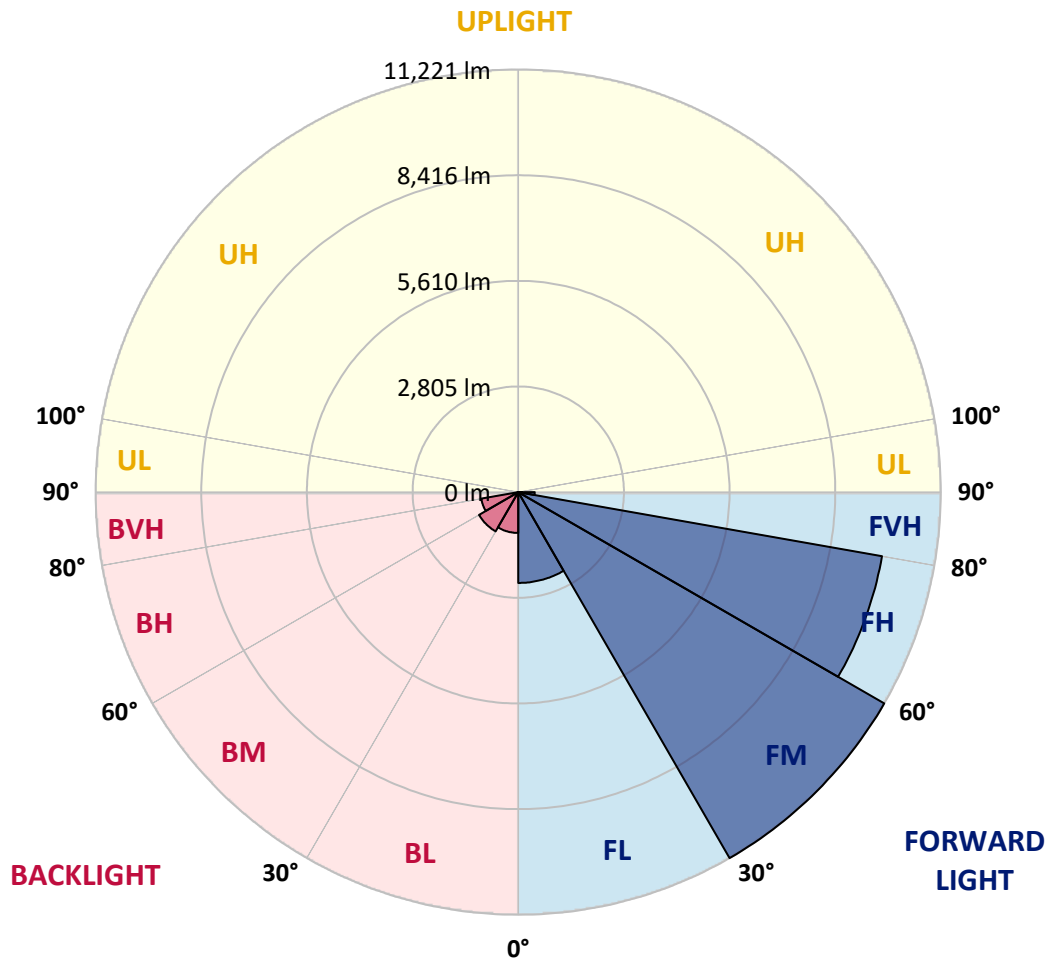
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2411.5	8.9			
FM (30°-60°)	11220.7	41.3			
FH (60°-80°)	9806.9	36.1			G4/12000
FVH (80°-90°)	439.2	1.6			G3/500
BL (0°-30°)	1083.8	4.0	B3/2500		
BM (30°-60°)	1202.9	4.4	B2/2500		
BH (60°-80°)	997.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	12.5	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°	6851.4	6851.4	6851.4	6851.4	6851.4	6851.4	6851.4	6851.4	6851.4	6851.4	6851.4
2.5°	6598.5	6649.8	6664.4	6715.8	6741.4	6851.4	6913.7	6950.4	6932.0	6972.4	6976.0
5°	6129.2	6099.9	6176.9	6231.9	6349.2	6539.8	6734.1	6884.4	6954.0	7020.0	7009.0
7.5°	5627.0	5612.4	5689.3	5814.0	5920.3	6151.2	6462.8	6833.1	6818.4	6979.7	7027.4
10°	5282.4	5297.1	5322.8	5447.4	5605.0	5839.6	6228.2	6572.8	6649.8	6990.7	7086.0
12.5°	4967.2	4992.8	5040.5	5168.8	5352.1	5594.0	5971.6	6374.8	6492.1	6928.4	7119.0
15°	4864.5	4805.9	4901.2	4996.5	5187.1	5403.4	5722.3	6224.5	6275.9	6855.1	7174.0
17.5°	4780.2	4743.6	4787.5	4864.5	5066.1	5242.1	5542.7	6063.2	6158.6	6825.7	7166.7
20°	4805.9	4772.9	4791.2	4849.9	4941.5	5106.5	5385.1	5909.3	6011.9	6690.1	7155.7
22.5°	4879.2	4904.9	4871.9	4886.5	4915.8	5000.2	5300.8	5799.3	5887.3	6664.4	7218.0
25°	5209.1	5165.1	5121.1	5102.8	4930.5	4967.2	5275.1	5792.0	5854.3	6572.8	7166.7
27.5°	5553.7	5517.0	5498.7	5392.4	5157.8	5047.8	5278.8	5689.3	5773.6	6536.1	7104.3
30°	5971.6	6019.3	5945.9	5817.6	5491.4	5220.1	5319.1	5638.0	5755.3	6396.8	7064.0
32.5°	6411.5	6437.2	6473.8	6378.5	5956.9	5480.4	5440.1	5685.7	5693.0	6396.8	6972.4
35°	6910.0	6873.4	6968.7	6976.0	6605.8	5942.3	5671.0	5718.7	5795.6	6367.5	6939.4
37.5°	7338.9	7401.3	7511.2	7687.2	7306.0	6594.8	6030.3	5872.6	5905.6	6503.1	6965.0
40°	7808.2	7870.5	8119.8	8295.7	8079.4	7327.9	6576.5	6231.9	6257.5	6704.8	7097.0
42.5°	8325.0	8446.0	8743.0	9050.9	8992.2	8259.1	7280.3	6759.7	6748.8	7207.0	7368.3
45°	9025.2	9186.5	9509.1	9864.7	9916.0	9325.8	8218.7	7547.9	7584.6	7863.2	7929.1
47.5°	10000.3	9993.0	10308.3	10704.2	11001.1	10432.9	9340.5	8607.3	8603.6	8900.6	8761.3
50°	10942.4	10946.1	11030.4	11488.6	12258.5	11968.9	10729.8	10015.0	9974.7	10121.3	9897.7
52.5°	11378.7	11327.3	11265.0	11818.6	13226.2	13904.4	12489.4	11609.6	11576.6	11488.6	11430.0
55°	10920.4	10938.8	10935.1	11510.6	13735.8	15946.3	14747.5	13365.5	13310.5	13035.6	13116.3
57.5°	9450.5	9391.8	9520.1	10418.2	13152.9	17339.3	17977.1	15579.7	15436.7	14523.9	14340.6
60°	7034.7	7053.0	7159.3	8218.7	11704.9	17632.5	21067.4	18178.7	17562.9	15572.3	15319.4
62.5°	4912.2	4875.5	4915.8	5509.7	8369.0	16459.5	23156.9	21338.7	20744.8	16763.7	16617.1
65°	3515.5	3467.9	3629.1	3992.1	5025.8	12584.7	23453.8	25547.0	25015.5	18666.3	18314.4
67.5°	2529.4	2522.1	2709.0	3368.9	3570.5	7247.3	21254.4	29359.5	29036.9	20924.4	19348.1
69°	2093.2	2096.8	2276.5	3017.0	3409.2	4948.8	18288.7	30015.6	29957.0	22090.2	19153.8
70°	1825.6	1840.2	2049.2	2808.0	3343.2	4069.0	15766.6	29370.4	29311.8	22317.4	18512.3
72.5°	1125.4	1136.4	1411.3	2250.8	3178.3	3321.2	9428.5	24029.4	24231.0	21276.3	15949.9
75°	538.9	542.5	740.5	1627.6	3064.6	3148.9	5051.5	17731.5	18156.7	17178.0	12463.7
77.5°	285.9	285.9	355.6	865.1	2481.8	2962.0	2998.6	12507.7	12859.7	10861.8	7086.0
80°	143.0	146.6	216.3	450.9	1539.6	2903.3	2342.5	7459.9	7650.5	4432.0	2206.8
82.5°	55.0	58.7	102.6	271.3	799.1	2452.4	2056.5	3669.5	3621.8	1037.4	538.9
85°	7.3	7.3	36.7	161.3	340.9	1081.4	1697.3	1532.3	1481.0	227.3	260.3
87.5°	0.0	0.0	7.3	47.7	102.6	315.3	656.2	421.6	469.2	62.3	128.3
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°	6851.4	6851.4	6851.4	6851.4	6851.4	6851.4	6851.4	6851.4	6851.4	6851.4	6851.4
2.5°	6957.7	6880.7	6763.4	6649.8	6528.8	6382.2	6220.9	6162.2	6059.6	6052.2	6110.9
5°	6950.4	6825.7	6620.4	6378.5	6033.9	5773.6	5491.4	5286.1	5128.5	5025.8	5051.5
7.5°	6987.0	6836.7	6481.1	5960.6	5517.0	5000.2	4563.9	4263.3	3988.4	3852.8	3838.1
10°	6928.4	6726.8	6206.2	5476.7	4824.2	4102.0	3464.2	3060.9	2650.4	2500.1	2507.4
12.5°	6961.4	6679.1	5909.3	4978.2	4080.0	3141.6	2379.1	1829.2	1444.3	1319.7	1305.0
15°	6983.4	6576.5	5623.3	4380.6	3255.2	2140.8	1378.3	1037.4	916.5	894.5	890.8
17.5°	6899.0	6451.8	5220.1	3790.4	2412.1	1301.4	916.5	846.8	824.8	810.1	802.8
20°	6895.4	6378.5	4871.9	3185.6	1609.3	887.1	791.8	766.2	733.2	722.2	722.2
22.5°	6833.1	6224.5	4454.0	2522.1	1026.4	762.5	711.2	670.8	634.2	619.5	615.9
25°	6814.7	6044.9	4061.7	1895.2	780.8	681.8	630.5	571.9	527.9	505.9	494.9
27.5°	6763.4	5891.0	3665.8	1334.4	681.8	608.5	542.5	480.2	428.9	395.9	392.2
30°	6580.1	5729.7	3225.9	923.8	619.5	538.9	465.6	392.2	340.9	318.9	311.6
32.5°	6503.1	5579.4	2745.7	711.2	564.5	476.6	392.2	326.3	285.9	263.9	260.3
35°	6411.5	5359.4	2280.1	619.5	513.2	414.2	329.9	274.9	241.9	223.6	223.6
37.5°	6422.5	5183.5	1843.9	560.9	458.2	355.6	282.3	234.6	205.3	187.0	187.0
40°	6389.5	5044.2	1433.3	509.5	406.9	304.3	238.3	198.0	172.3	154.0	150.3
42.5°	6539.8	5007.5	1081.4	465.6	355.6	260.3	205.3	168.6	143.0	121.0	121.0
45°	6792.7	5066.1	843.1	425.2	304.3	223.6	176.0	139.3	113.6	99.0	95.3
47.5°	7467.2	5297.1	659.8	392.2	260.3	194.3	146.6	113.6	91.6	77.0	73.3
50°	8446.0	5814.0	560.9	344.6	219.9	165.0	121.0	88.0	73.3	58.7	55.0
52.5°	9839.0	6682.8	509.5	304.3	183.3	135.6	95.3	69.7	55.0	44.0	40.3
55°	11356.7	7767.8	461.9	256.6	154.0	110.0	77.0	55.0	40.3	29.3	25.7
57.5°	12540.7	8706.3	421.6	212.6	124.6	88.0	58.7	40.3	29.3	18.3	14.7
60°	13834.8	9366.1	370.2	168.6	102.6	66.0	44.0	29.3	22.0	11.0	11.0
62.5°	15169.1	10139.6	304.3	132.0	80.6	51.3	33.0	22.0	14.7	3.7	3.7
65°	17024.0	10744.5	234.6	102.6	62.3	36.7	25.7	18.3	7.3	0.0	0.0
67.5°	17548.2	10447.6	172.3	80.6	44.0	25.7	18.3	11.0	3.7	0.0	0.0
69°	17024.0	9410.1	150.3	69.7	36.7	22.0	14.7	7.3	3.7	0.0	0.0
70°	16067.2	8603.6	132.0	58.7	33.0	22.0	11.0	7.3	3.7	0.0	0.0
72.5°	13438.8	6598.5	102.6	44.0	25.7	18.3	11.0	7.3	0.0	0.0	0.0
75°	9857.4	4076.4	77.0	33.0	22.0	14.7	11.0	7.3	0.0	0.0	0.0
77.5°	5282.4	1488.3	55.0	22.0	14.7	11.0	11.0	7.3	0.0	0.0	0.0
80°	1448.0	439.9	40.3	14.7	11.0	7.3	7.3	3.7	0.0	0.0	0.0
82.5°	395.9	113.6	25.7	14.7	11.0	7.3	3.7	0.0	0.0	0.0	0.0
85°	212.6	44.0	14.7	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	110.0	14.7	11.0	7.3	7.3	3.7	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)