

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: P483983

Luminaire Tested: **IFLD-S-SA6B-735-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483983
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

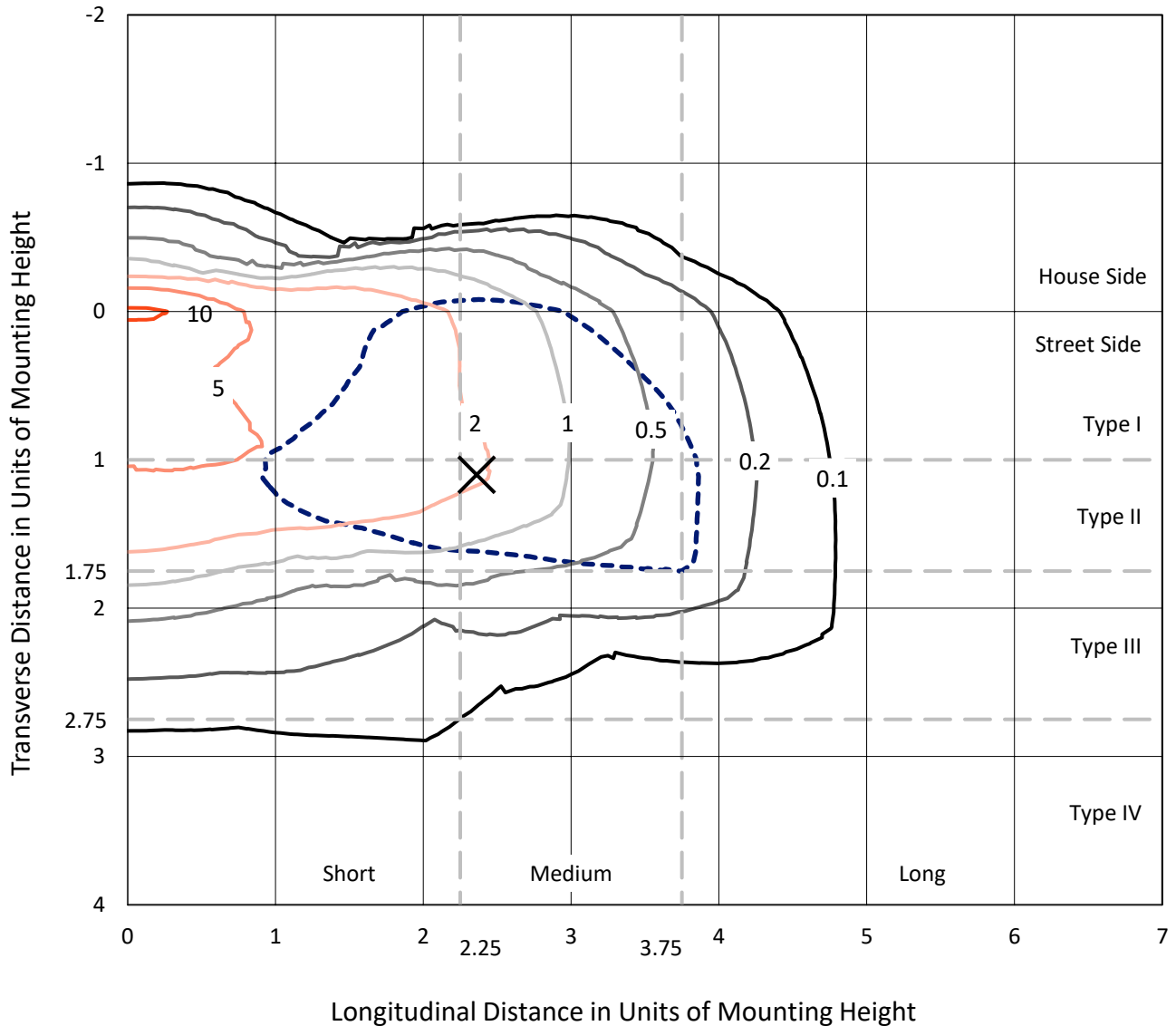
Lumens per Lamp: N/A
Luminaire Lumens: 27096.8 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

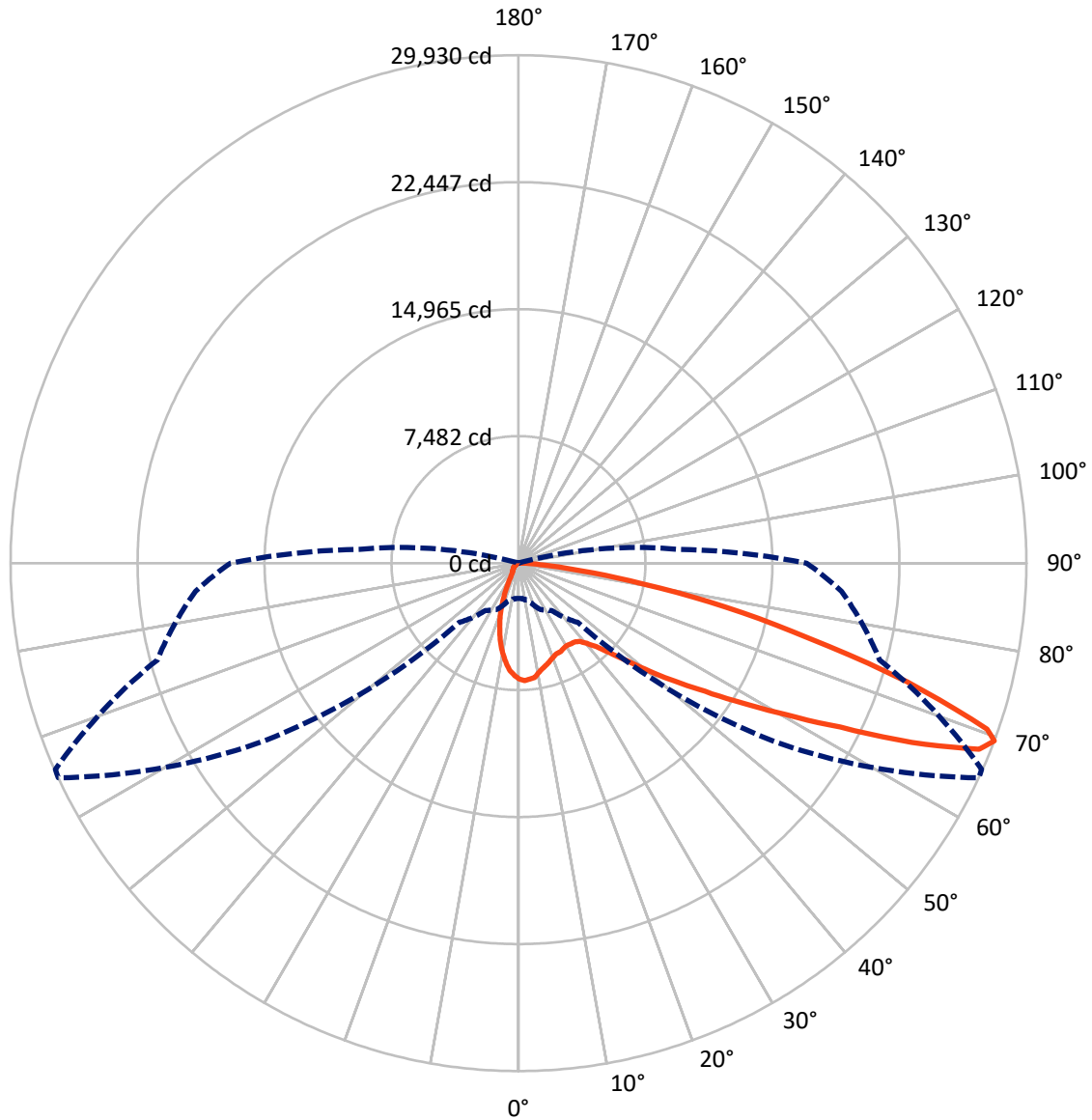
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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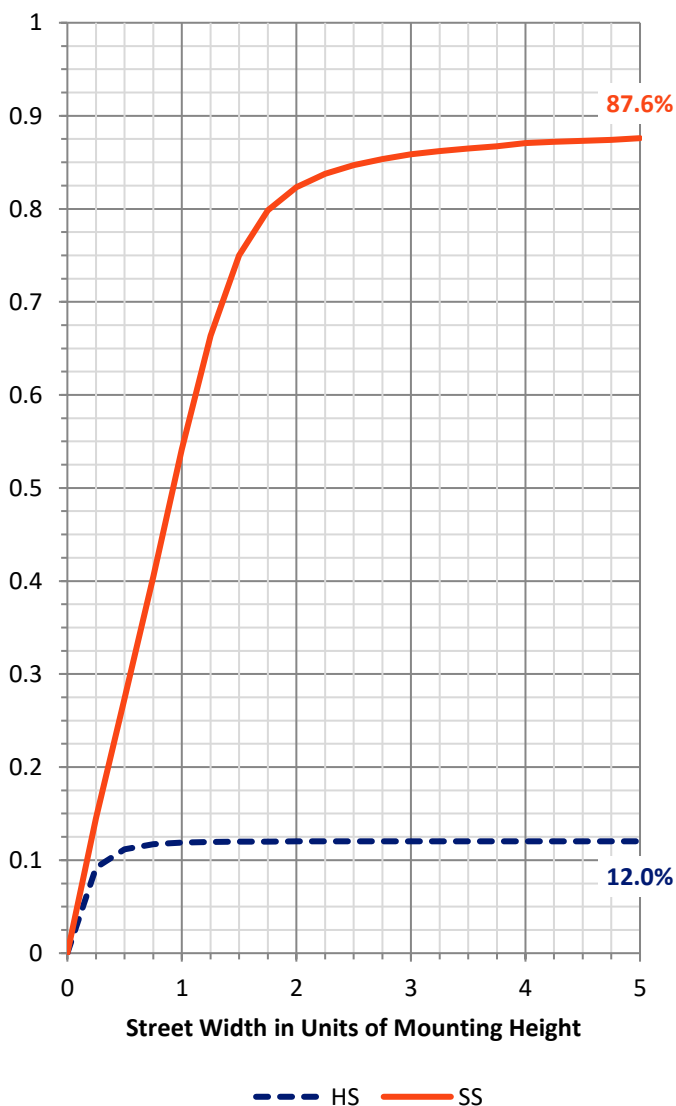
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3287.0	0.0	3287.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	23809.8	0.0	23809.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	27096.8	0.0	27096.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.1	2.1
10°-20°	1223.2	4.5
20°-30°	1703.0	6.3
30°-40°	2413.3	8.9
40°-50°	3803.3	14.0
50°-60°	6171.4	22.8
60°-70°	6892.2	25.4
70°-80°	3881.1	14.3
80°-90°	450.4	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°	27096.8	100.0
0°-180°	27096.8	100.0



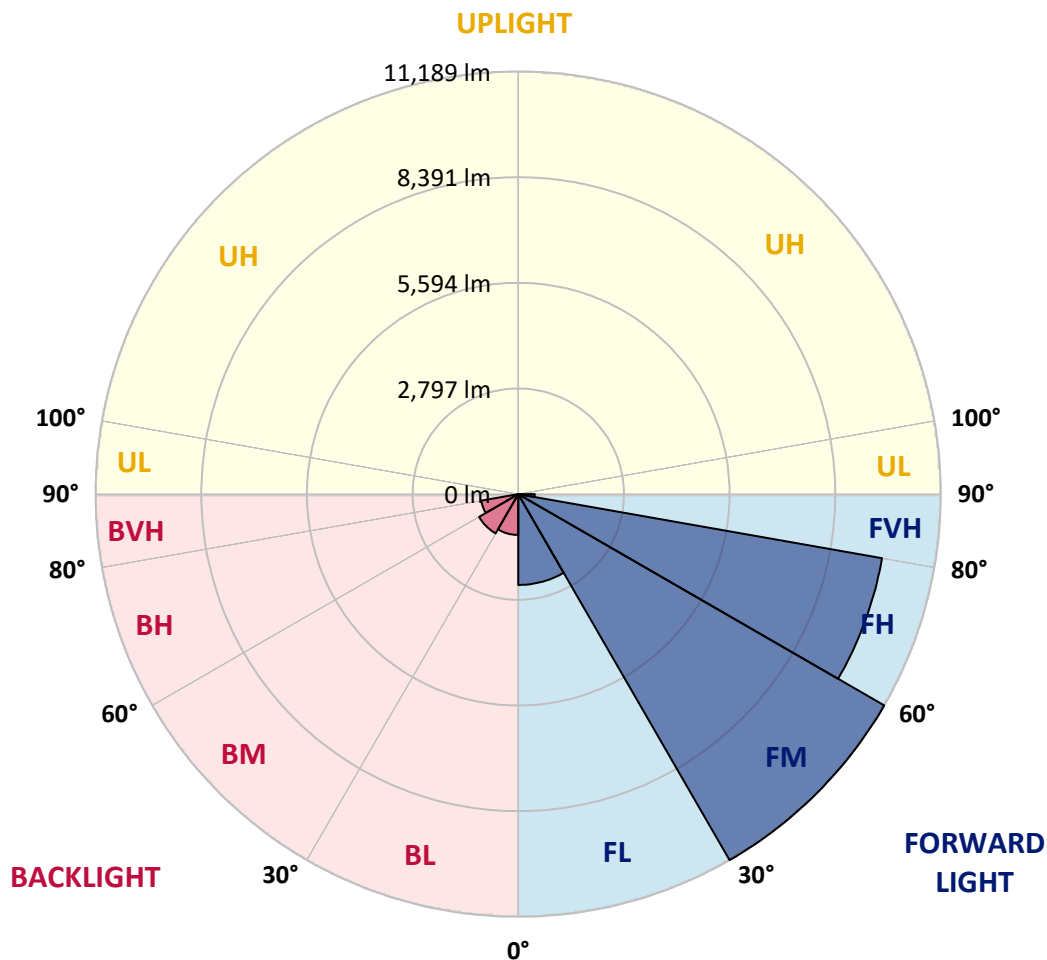
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2404.6	8.9			
FM (30°-60°)	11188.5	41.3			
FH (60°-80°)	9778.8	36.1			G4/12000
FVH (80°-90°)	437.9	1.6			G3/500
BL (0°-30°)	1080.7	4.0	B3/2500		
BM (30°-60°)	1199.4	4.4	B2/2500		
BH (60°-80°)	994.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	12.4	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°	6831.7	6831.7	6831.7	6831.7	6831.7	6831.7	6831.7	6831.7	6831.7	6831.7	6831.7
2.5°	6579.5	6630.7	6645.3	6696.5	6722.1	6831.7	6893.9	6930.4	6912.2	6952.4	6956.0
5°	6111.6	6082.4	6159.2	6214.0	6331.0	6521.0	6714.8	6864.6	6934.1	6999.9	6988.9
7.5°	5610.9	5596.3	5673.0	5797.3	5903.3	6133.6	6444.3	6813.5	6798.8	6959.7	7007.2
10°	5267.3	5281.9	5307.5	5431.8	5588.9	5822.9	6210.3	6553.9	6630.7	6970.6	7065.7
12.5°	4952.9	4978.5	5026.0	5154.0	5336.7	5578.0	5954.5	6356.6	6473.5	6908.5	7098.6
15°	4850.6	4792.1	4887.1	4982.2	5172.2	5387.9	5705.9	6206.7	6257.9	6835.4	7153.4
17.5°	4766.5	4729.9	4773.8	4850.6	5051.6	5227.1	5526.8	6045.9	6140.9	6806.2	7146.1
20°	4792.1	4759.2	4777.5	4836.0	4927.3	5091.8	5369.6	5892.3	5994.7	6670.9	7135.1
22.5°	4865.2	4890.8	4857.9	4872.5	4901.7	4985.8	5285.6	5782.7	5870.4	6645.3	7197.3
25°	5194.2	5150.3	5106.4	5088.2	4916.4	4952.9	5260.0	5775.4	5837.5	6553.9	7146.1
27.5°	5537.8	5501.2	5482.9	5376.9	5143.0	5033.3	5263.6	5673.0	5757.1	6517.4	7084.0
30°	5954.5	6002.0	5928.9	5800.9	5475.6	5205.1	5303.8	5621.8	5738.8	6378.5	7043.7
32.5°	6393.1	6418.7	6455.2	6360.2	5939.9	5464.7	5424.5	5669.4	5676.7	6378.5	6952.4
35°	6890.2	6853.7	6948.7	6956.0	6586.8	5925.2	5654.7	5702.3	5779.0	6349.2	6919.5
37.5°	7317.9	7380.0	7489.7	7665.1	7285.0	6575.9	6013.0	5855.8	5888.7	6484.5	6945.1
40°	7785.8	7847.9	8096.5	8271.9	8056.3	7306.9	6557.6	6214.0	6239.6	6685.5	7076.6
42.5°	8301.2	8421.8	8717.9	9024.9	8966.4	8235.4	7259.4	6740.4	6729.4	7186.3	7347.1
45°	8999.3	9160.2	9481.8	9836.4	9887.6	9299.1	8195.2	7526.2	7562.8	7840.6	7906.4
47.5°	9971.6	9964.3	10278.7	10673.5	10969.5	10403.0	9313.7	8582.6	8579.0	8875.1	8736.1
50°	10911.0	10914.7	10998.8	11455.7	12223.3	11934.5	10699.0	9986.3	9946.1	10092.3	9869.3
52.5°	11346.0	11294.9	11232.7	11784.7	13188.3	13864.5	12453.6	11576.3	11543.4	11455.7	11397.2
55°	10889.1	10907.4	10903.7	11477.6	13696.4	15900.5	14705.2	13327.2	13272.4	12998.2	13078.6
57.5°	9423.3	9364.9	9492.8	10388.3	13115.2	17289.5	17925.6	15535.0	15392.4	14482.3	14299.5
60°	7014.5	7032.8	7138.8	8195.2	11671.3	17582.0	21007.0	18126.6	17512.5	15527.7	15275.5
62.5°	4898.1	4861.5	4901.7	5493.9	8345.0	16412.3	23090.5	21277.5	20685.3	16715.7	16569.4
65°	3505.4	3457.9	3618.7	3980.6	5011.4	12548.6	23386.6	25473.7	24943.7	18612.8	18261.8
67.5°	2522.2	2514.8	2701.3	3359.2	3560.3	7226.5	21193.4	29275.2	28953.6	20864.4	19292.6
69°	2087.2	2090.8	2269.9	3008.3	3399.4	4934.6	18236.3	29929.5	29871.1	22026.8	19098.9
70°	1820.3	1835.0	2043.3	2800.0	3333.6	4057.4	15721.4	29286.2	29227.7	22253.4	18459.2
72.5°	1122.2	1133.1	1407.3	2244.3	3169.1	3311.7	9401.4	23960.4	24161.5	21215.3	15904.2
75°	537.3	541.0	738.4	1622.9	3055.8	3139.9	5037.0	17680.7	18104.7	17128.7	12428.0
77.5°	285.1	285.1	354.6	862.6	2474.6	2953.5	2990.0	12471.9	12822.8	10830.6	7065.7
80°	142.6	146.2	215.7	449.6	1535.2	2895.0	2335.7	7438.5	7628.6	4419.2	2200.5
82.5°	54.8	58.5	102.3	270.5	796.9	2445.4	2050.6	3658.9	3611.4	1034.4	537.3
85°	7.3	7.3	36.6	160.8	339.9	1078.3	1692.4	1527.9	1476.7	226.6	259.5
87.5°	0.0	0.0	7.3	47.5	102.3	314.4	654.3	420.4	467.9	62.1	127.9
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°	6831.7	6831.7	6831.7	6831.7	6831.7	6831.7	6831.7	6831.7	6831.7	6831.7	6831.7
2.5°	6937.7	6861.0	6744.0	6630.7	6510.1	6363.9	6203.0	6144.5	6042.2	6034.9	6093.4
5°	6930.4	6806.2	6601.5	6360.2	6016.6	5757.1	5475.6	5270.9	5113.8	5011.4	5037.0
7.5°	6967.0	6817.1	6462.6	5943.5	5501.2	4985.8	4550.8	4251.1	3977.0	3841.7	3827.1
10°	6908.5	6707.5	6188.4	5461.0	4810.4	4090.3	3454.3	3052.2	2642.8	2492.9	2500.2
12.5°	6941.4	6659.9	5892.3	4963.9	4068.3	3132.6	2372.3	1824.0	1440.2	1315.9	1301.3
15°	6963.3	6557.6	5607.2	4368.1	3245.9	2134.7	1374.4	1034.4	913.8	891.9	888.2
17.5°	6879.3	6433.3	5205.1	3779.6	2405.2	1297.6	913.8	844.4	822.4	807.8	800.5
20°	6875.6	6360.2	4857.9	3176.4	1604.7	884.6	789.5	764.0	731.1	720.1	720.1
22.5°	6813.5	6206.7	4441.2	2514.8	1023.5	760.3	709.1	668.9	632.4	617.7	614.1
25°	6795.2	6027.6	4050.1	1889.8	778.6	679.9	628.7	570.2	526.4	504.4	493.5
27.5°	6744.0	5874.1	3655.3	1330.5	679.9	606.8	541.0	478.8	427.7	394.8	391.1
30°	6561.3	5713.2	3216.7	921.1	617.7	537.3	464.2	391.1	339.9	318.0	310.7
32.5°	6484.5	5563.4	2737.8	709.1	562.9	475.2	391.1	325.3	285.1	263.2	259.5
35°	6393.1	5344.0	2273.6	617.7	511.7	413.0	329.0	274.1	241.2	223.0	223.0
37.5°	6404.1	5168.6	1838.6	559.3	456.9	354.6	281.5	233.9	204.7	186.4	186.4
40°	6371.2	5029.7	1429.2	508.1	405.7	303.4	237.6	197.4	171.8	153.5	149.9
42.5°	6521.0	4993.1	1078.3	464.2	354.6	259.5	204.7	168.1	142.6	120.6	120.6
45°	6773.3	5051.6	840.7	424.0	303.4	223.0	175.5	138.9	113.3	98.7	95.0
47.5°	7445.8	5281.9	658.0	391.1	259.5	193.7	146.2	113.3	91.4	76.8	73.1
50°	8421.8	5797.3	559.3	343.6	219.3	164.5	120.6	87.7	73.1	58.5	54.8
52.5°	9810.8	6663.6	508.1	303.4	182.8	135.2	95.0	69.5	54.8	43.9	40.2
55°	11324.1	7745.6	460.6	255.9	153.5	109.7	76.8	54.8	40.2	29.2	25.6
57.5°	12504.8	8681.3	420.4	212.0	124.3	87.7	58.5	40.2	29.2	18.3	14.6
60°	13795.1	9339.3	369.2	168.1	102.3	65.8	43.9	29.2	21.9	11.0	11.0
62.5°	15125.6	10110.5	303.4	131.6	80.4	51.2	32.9	21.9	14.6	3.7	3.7
65°	16975.2	10713.7	233.9	102.3	62.1	36.6	25.6	18.3	7.3	0.0	0.0
67.5°	17497.9	10417.6	171.8	80.4	43.9	25.6	18.3	11.0	3.7	0.0	0.0
69°	16975.2	9383.1	149.9	69.5	36.6	21.9	14.6	7.3	3.7	0.0	0.0
70°	16021.1	8579.0	131.6	58.5	32.9	21.9	11.0	7.3	3.7	0.0	0.0
72.5°	13400.3	6579.5	102.3	43.9	25.6	18.3	11.0	7.3	0.0	0.0	0.0
75°	9829.1	4064.7	76.8	32.9	21.9	14.6	11.0	7.3	0.0	0.0	0.0
77.5°	5267.3	1484.0	54.8	21.9	14.6	11.0	11.0	7.3	0.0	0.0	0.0
80°	1443.8	438.6	40.2	14.6	11.0	7.3	7.3	3.7	0.0	0.0	0.0
82.5°	394.8	113.3	25.6	14.6	11.0	7.3	3.7	0.0	0.0	0.0	0.0
85°	212.0	43.9	14.6	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	109.7	14.6	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)