

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: P481334

Luminaire Tested: **IFLD-S-SA6E-750-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481334
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-750-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

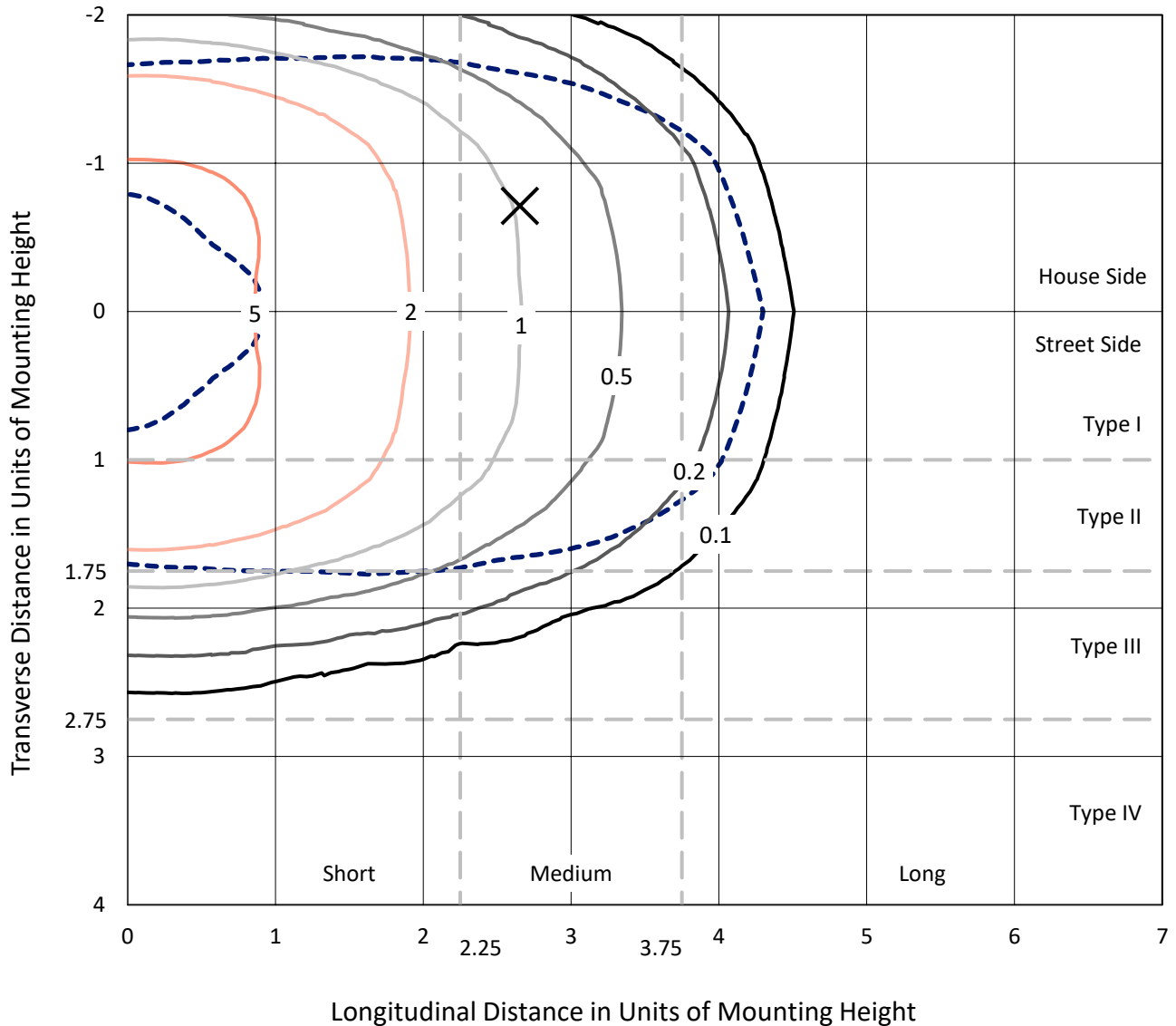
Lumens per Lamp: N/A
Luminaire Lumens: 55749.9 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 464.2
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

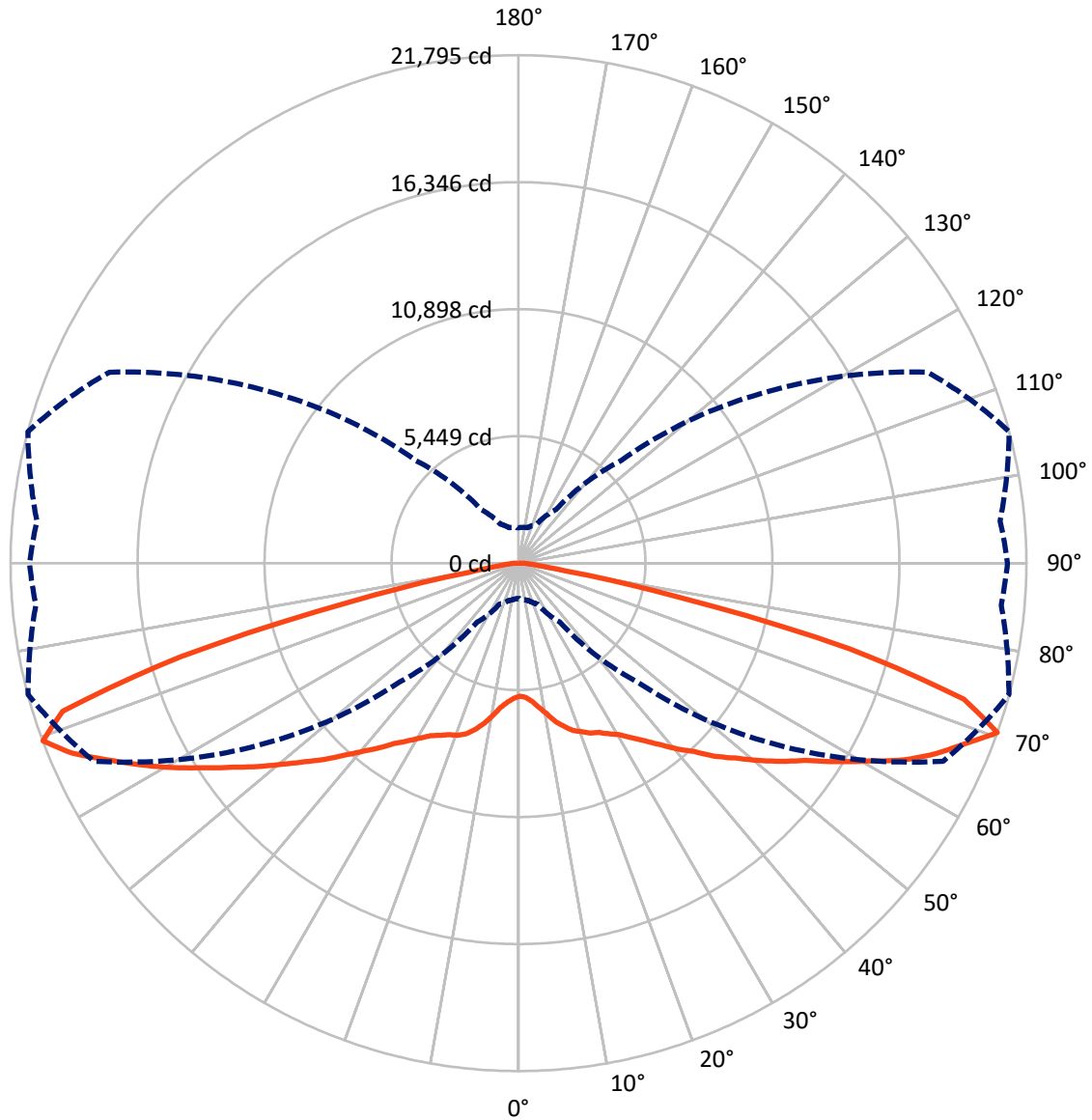
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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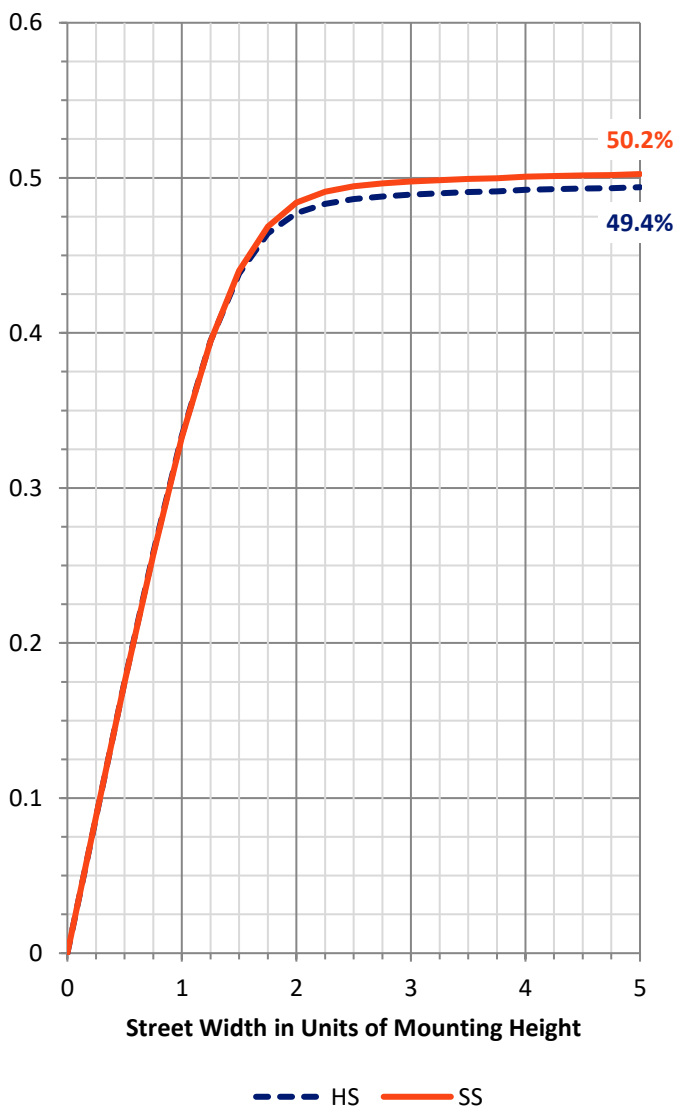
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27676.7	0.0	27676.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	28073.3	0.0	28073.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	55749.9	0.0	55749.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.2	1.0
10°-20°	1934.7	3.5
20°-30°	3746.3	6.7
30°-40°	6336.5	11.4
40°-50°	10108.6	18.1
50°-60°	13836.4	24.8
60°-70°	13041.7	23.4
70°-80°	5745.3	10.3
80°-90°	432.3	0.8
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°	55749.9	100.0
0°-180°	55749.9	100.0

Coefficient of Utilization



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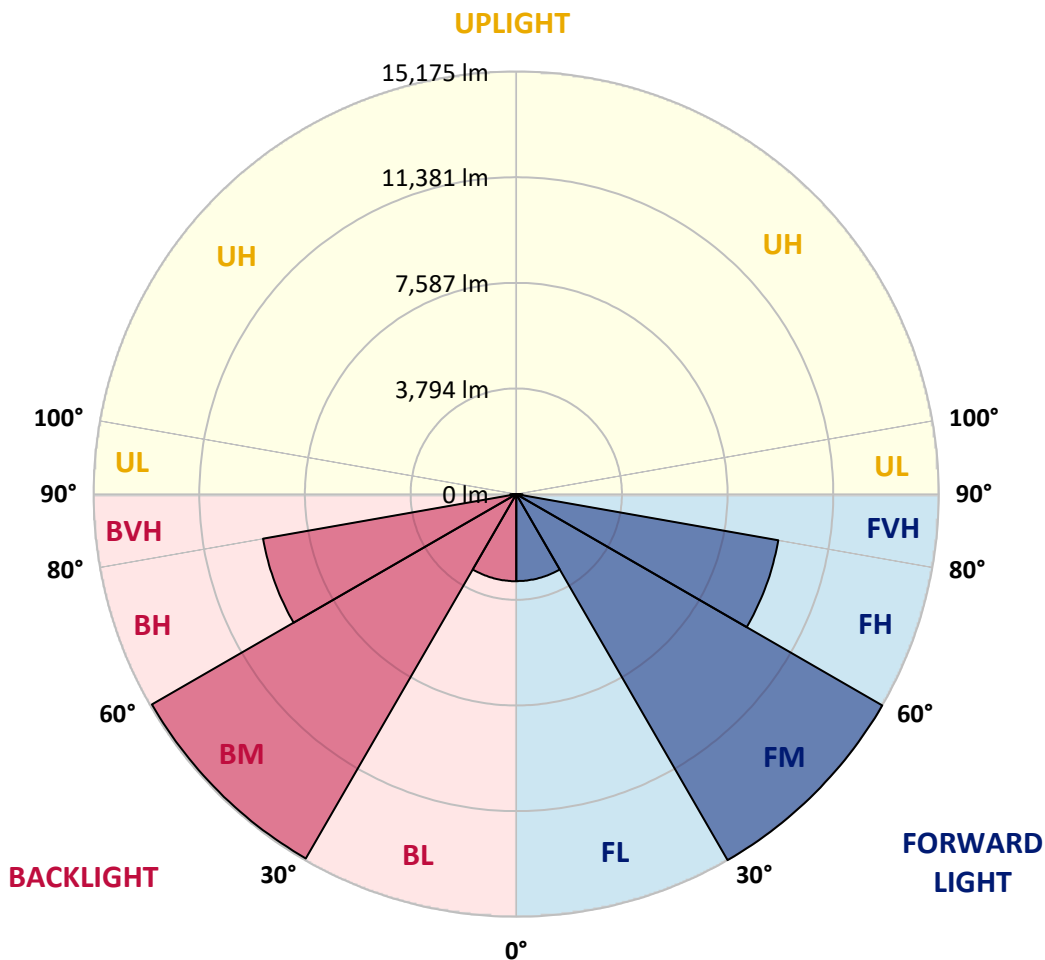
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3122.9	5.6			
FM (30°-60°)	15174.6	27.2			
FH (60°-80°)	9554.9	17.1			G4/12000
FVH (80°-90°)	220.8	0.4			G2/225
BL (0°-30°)	3126.3	5.6	B4/5000		
BM (30°-60°)	15106.8	27.1	B5		
BH (60°-80°)	9232.1	16.6	B5		G5
BVH (80°-90°)	211.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5708.7	5708.7	5708.7	5708.7	5708.7	5708.7	5708.7	5708.7	5708.7	5708.7	5708.7
2.5°	5672.7	5672.7	5666.7	5696.7	5726.8	5738.8	5762.8	5768.8	5804.9	5774.8	5834.9
5°	5654.7	5648.6	5696.7	5768.8	5768.8	5846.9	5895.0	5961.1	5979.1	6015.2	6027.2
7.5°	5780.8	5768.8	5744.8	5822.9	5889.0	6009.2	6075.3	6189.5	6231.5	6279.6	6333.7
10°	5859.0	5859.0	5834.9	5973.1	6033.2	6195.5	6339.7	6453.9	6616.1	6670.2	6676.2
12.5°	5871.0	5889.0	5961.1	6141.4	6309.7	6520.0	6628.1	6844.5	7006.7	7108.9	7144.9
15°	6051.3	6015.2	6093.3	6339.7	6586.1	6772.4	6964.7	7120.9	7355.3	7487.5	7571.6
17.5°	6213.5	6177.5	6321.7	6616.1	6868.5	7157.0	7325.2	7493.5	7661.7	7781.9	7787.9
20°	6471.9	6501.9	6628.1	6946.6	7277.1	7529.5	7721.8	7751.9	7836.0	8010.3	7980.2
22.5°	6790.4	6766.4	7030.8	7379.3	7739.8	7950.2	8058.3	7980.2	7938.1	8124.4	8166.5
25°	7108.9	7181.0	7421.4	7745.9	8178.5	8460.9	8491.0	8274.7	8118.4	8184.5	8166.5
27.5°	7595.6	7607.6	7860.0	8244.6	8683.3	8929.7	8911.6	8605.2	8304.7	8310.7	8322.7
30°	8220.6	8160.5	8436.9	8785.4	9218.1	9440.4	9470.5	9031.8	8629.2	8509.0	8539.1
32.5°	8821.5	8893.6	9134.0	9530.6	9849.1	9975.3	9909.2	9518.6	8995.8	8833.5	8851.5
35°	9590.7	9578.7	9909.2	10245.7	10486.0	10510.1	10456.0	9885.1	9392.4	9182.0	9097.9
37.5°	10413.9	10522.1	10738.4	11014.9	11267.2	11279.3	10984.8	10528.1	9921.2	9572.6	9674.8
40°	11333.3	11453.5	11609.8	12012.4	12198.7	12006.4	11705.9	11087.0	10456.0	10149.5	10197.6
42.5°	12144.6	12198.7	12517.2	12991.9	13082.0	12997.9	12553.2	11802.1	11068.9	10732.4	10756.5
45°	12889.7	12961.8	13376.5	13803.1	14013.4	13869.2	13352.4	12637.3	11784.0	11495.6	11381.4
47.5°	13574.8	13719.0	14121.6	14560.3	14884.8	14896.8	14259.8	13394.5	12493.1	12114.5	12108.5
50°	14037.5	14247.8	14644.4	15143.2	15617.9	15804.2	15167.2	14235.8	13268.3	12865.7	12823.6
52.5°	14289.9	14506.2	14902.8	15678.0	16206.8	16495.2	16194.8	15023.0	14175.7	13755.0	13688.9
55°	13983.4	14127.6	14776.6	15864.3	16681.5	17156.3	16957.9	16110.7	15077.1	14734.5	14794.6
57.5°	12679.4	12979.9	13779.1	15137.2	16669.5	17835.3	17817.3	17138.2	16116.7	15792.2	15804.2
60°	10438.0	10690.4	11675.9	13574.8	15996.5	18111.7	18748.7	18135.7	17282.4	16903.9	16891.8
62.5°	7367.3	7685.8	8827.5	10900.7	14013.4	17727.1	19818.3	19391.7	18424.2	18147.8	18249.9
65°	4122.3	4314.6	5372.2	7247.1	10678.3	15611.9	20010.6	20695.7	19584.0	19163.3	19181.3
67.5°	2205.4	2277.5	2770.2	3803.8	6532.0	12036.4	18069.6	21446.8	20839.9	20112.8	19998.6
70°	1514.3	1538.4	1664.5	1947.0	3088.7	7199.0	13628.9	20106.8	21783.3	20791.8	20984.1
72.5°	1280.0	1267.9	1298.0	1328.0	1616.5	3220.9	7998.2	15473.7	20563.5	20190.9	20118.8
75°	1111.7	1105.7	1117.7	1087.7	1123.7	1418.2	3539.4	9644.8	15053.0	16801.7	17072.1
77.5°	919.4	925.4	931.4	901.4	889.4	937.4	1424.2	4236.5	7409.3	8178.5	8821.5
80°	697.1	709.1	757.2	727.1	679.0	685.0	841.3	1418.2	2127.3	1929.0	1989.0
82.5°	474.7	480.7	582.9	546.8	510.8	462.7	540.8	733.1	829.3	631.0	552.8
85°	336.5	330.5	378.6	348.5	324.5	234.4	324.5	414.6	498.8	312.5	282.4
87.5°	78.1	78.1	156.2	126.2	120.2	96.1	126.2	162.2	216.3	138.2	126.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5708.7	5708.7	5708.7	5708.7	5708.7	5708.7	5708.7	5708.7	5708.7	5708.7
2.5°	5816.9	5762.8	5762.8	5750.8	5702.7	5690.7	5648.6	5660.7	5630.6	5600.6
5°	6021.2	5949.1	5949.1	5846.9	5750.8	5738.8	5690.7	5690.7	5642.6	5654.7
7.5°	6303.6	6237.5	6129.4	6039.2	5907.0	5853.0	5762.8	5750.8	5738.8	5714.7
10°	6640.2	6556.0	6447.9	6261.6	6153.4	6051.3	5961.1	5834.9	5804.9	5810.9
12.5°	7096.9	6964.7	6730.3	6568.0	6429.8	6297.6	6165.4	5979.1	5937.1	5955.1
15°	7421.4	7253.1	7018.7	6958.6	6772.4	6610.1	6393.8	6183.5	6111.4	6093.3
17.5°	7685.8	7547.5	7409.3	7319.2	7169.0	6970.7	6670.2	6429.8	6267.6	6249.6
20°	7902.1	7721.8	7691.8	7745.9	7559.6	7427.4	7060.8	6766.4	6550.0	6459.9
22.5°	8034.3	7920.1	8004.2	8052.3	8040.3	7818.0	7439.4	7096.9	6826.4	6742.3
25°	8178.5	8046.3	8346.8	8509.0	8551.1	8184.5	7890.1	7439.4	7175.0	7120.9
27.5°	8250.6	8298.7	8647.2	8989.8	8959.7	8677.3	8280.7	7878.1	7667.7	7571.6
30°	8460.9	8539.1	9067.9	9452.5	9458.5	9182.0	8881.6	8424.9	8190.5	8148.5
32.5°	8839.5	8935.7	9500.5	9909.2	9981.3	9771.0	9470.5	9188.1	8947.7	8851.5
35°	9128.0	9374.3	10011.3	10383.9	10576.2	10450.0	10281.7	9987.3	9734.9	9650.8
37.5°	9542.6	9885.1	10498.1	11002.8	11219.2	11207.1	11081.0	10762.5	10552.1	10480.0
40°	10137.5	10480.0	11038.9	11705.9	12108.5	12090.5	12018.4	11772.0	11459.5	11423.5
42.5°	10768.5	11050.9	11778.0	12541.2	13118.1	13058.0	12865.7	12577.2	12360.9	12312.8
45°	11381.4	11820.1	12493.1	13472.6	13905.3	14055.5	13827.2	13334.4	13088.0	13058.0
47.5°	12150.6	12499.1	13340.4	14217.8	14860.7	14884.8	14494.2	14037.5	13586.8	13682.9
50°	12835.6	13298.3	14151.7	15113.1	15882.3	15605.9	15107.1	14536.2	14211.7	14085.6
52.5°	13568.8	14133.6	15125.1	16104.6	16531.3	16254.9	15443.6	14806.7	14313.9	14259.8
55°	14638.4	14932.8	16230.8	16982.0	17120.2	16537.3	15341.5	14440.1	13803.1	13646.9
57.5°	15726.1	16068.6	17204.3	17853.3	17709.1	16381.1	14680.5	13286.3	12451.1	12228.7
60°	16825.7	17246.4	18201.9	18796.8	18051.6	15305.4	12811.6	11014.9	10041.4	9843.1
62.5°	18051.6	18598.5	19451.8	19662.1	17036.1	13178.2	10167.6	7950.2	6964.7	6634.2
65°	19139.3	19698.1	20749.7	19481.8	14878.8	9831.0	6574.1	4543.0	3815.8	3551.4
67.5°	20034.7	20665.6	21182.4	17240.4	10894.7	5756.8	3425.2	2391.7	2121.2	2025.1
70°	20743.7	21795.3	19379.7	12673.4	6225.5	2806.3	1850.8	1574.4	1538.4	1514.3
72.5°	20124.8	19986.6	14470.1	7313.2	2728.2	1544.4	1340.1	1298.0	1292.0	1298.0
75°	16459.2	14680.5	8653.2	3178.9	1370.1	1117.7	1111.7	1093.7	1123.7	1123.7
77.5°	7986.2	6982.7	3617.5	1364.1	901.4	877.3	907.4	907.4	907.4	907.4
80°	1850.8	2049.1	1292.0	829.3	655.0	655.0	721.1	727.1	697.1	685.0
82.5°	631.0	841.3	709.1	522.8	432.7	486.7	546.8	558.9	462.7	468.7
85°	312.5	492.8	384.6	300.5	222.3	300.5	354.5	372.6	318.5	306.5
87.5°	144.2	216.3	144.2	102.2	78.1	108.2	102.2	84.1	48.1	48.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)