

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: P481217

Luminaire Tested: **IFLD-S-SA6E-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481217
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

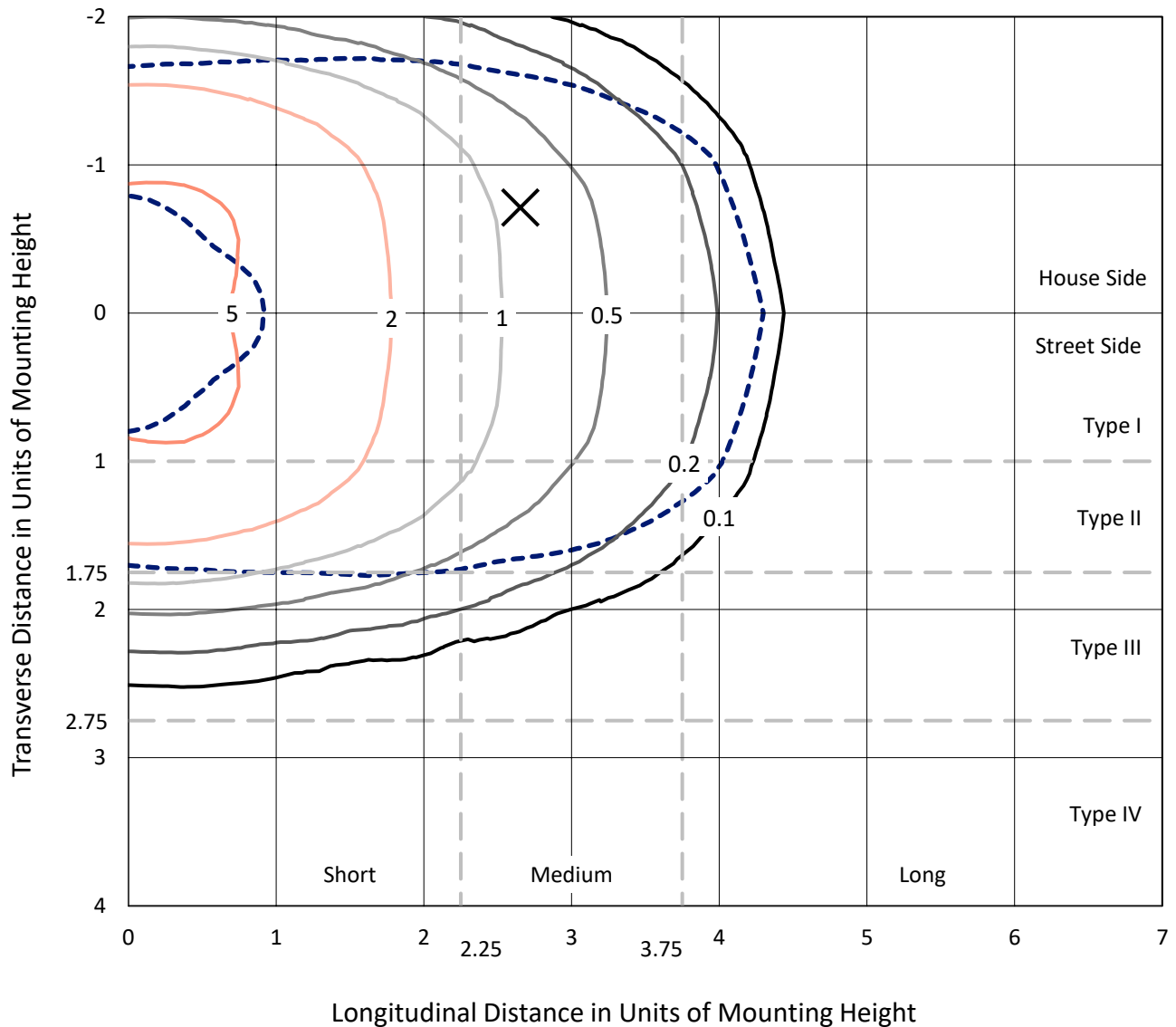
Lumens per Lamp: N/A
Luminaire Lumens: 49629.3 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

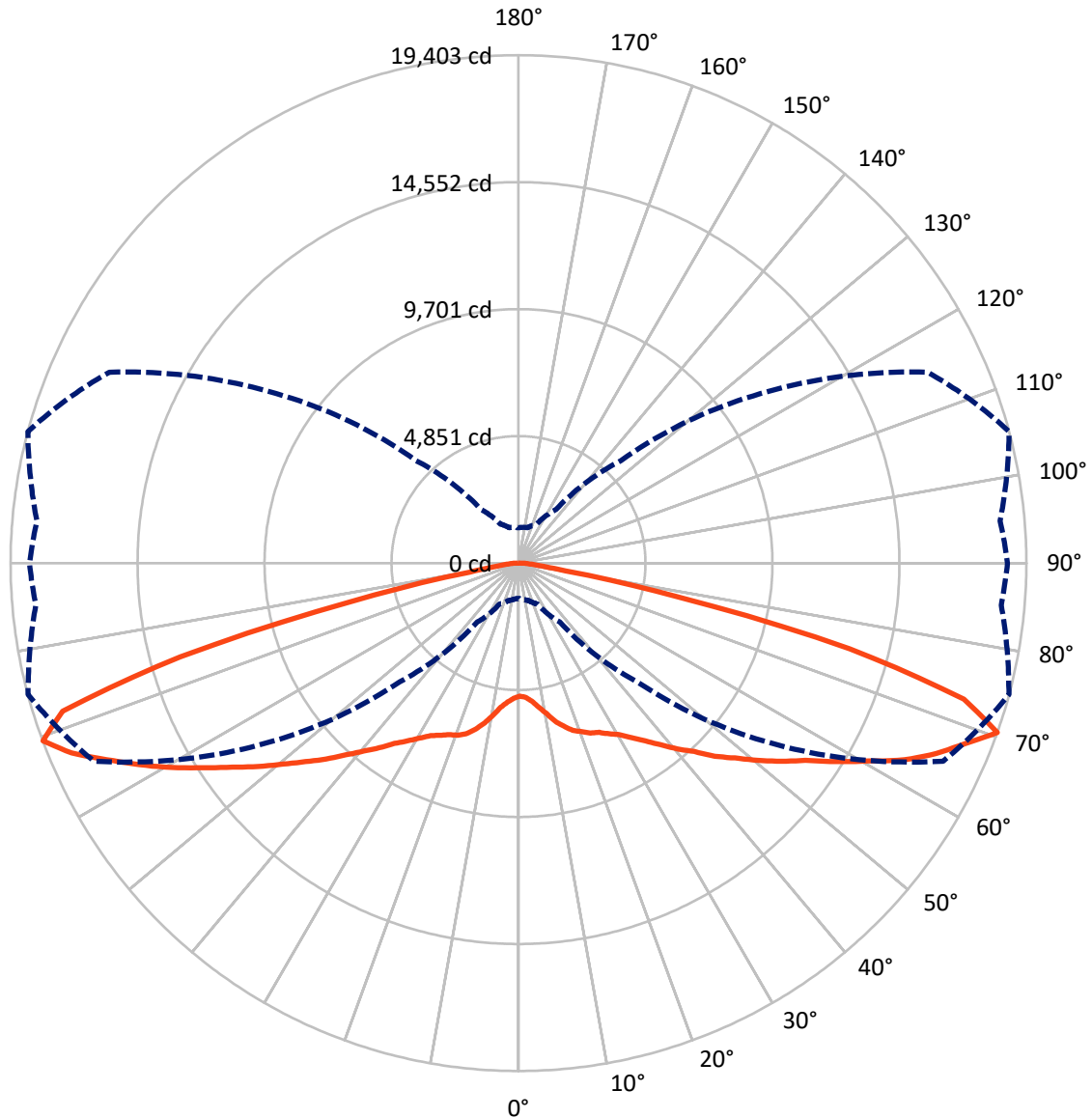
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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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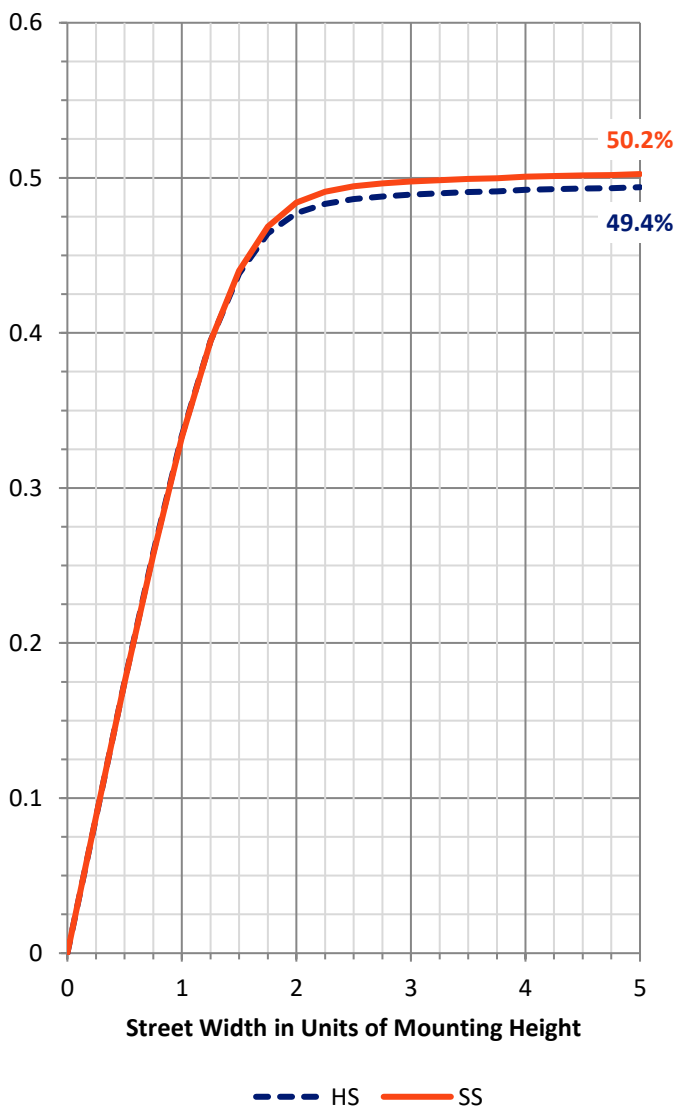
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24638.1	0.0	24638.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	24991.2	0.0	24991.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	49629.3	0.0	49629.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.8	1.0
10°-20°	1722.3	3.5
20°-30°	3335.0	6.7
30°-40°	5640.8	11.4
40°-50°	8998.8	18.1
50°-60°	12317.4	24.8
60°-70°	11609.9	23.4
70°-80°	5114.5	10.3
80°-90°	384.8	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°	49629.3	100.0
0°-180°	49629.3	100.0

Coefficient of Utilization

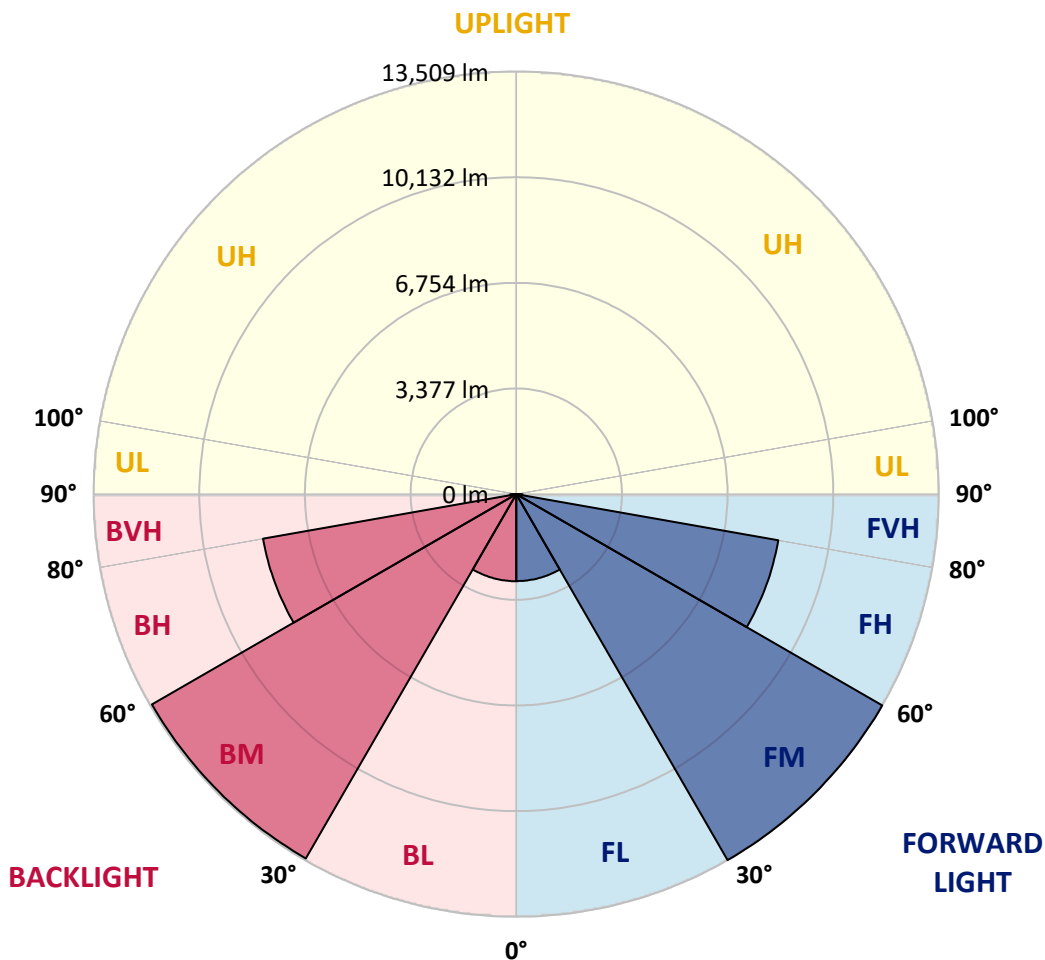


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2780.0	5.6			
FM (30°-60°)	13508.7	27.2			
FH (60°-80°)	8505.9	17.1			G4/12000
FVH (80°-90°)	196.6	0.4			G2/225
BL (0°-30°)	2783.1	5.6	B4/5000		
BM (30°-60°)	13448.3	27.1	B5		
BH (60°-80°)	8218.5	16.6	B5		G5
BVH (80°-90°)	188.2	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°	5082.0	5082.0	5082.0	5082.0	5082.0	5082.0	5082.0	5082.0	5082.0	5082.0	5082.0
2.5°	5049.9	5049.9	5044.5	5071.3	5098.0	5108.7	5130.1	5135.5	5167.6	5140.8	5194.3
5°	5033.9	5028.5	5071.3	5135.5	5135.5	5205.0	5247.8	5306.7	5322.7	5354.8	5365.5
7.5°	5146.2	5135.5	5114.1	5183.6	5242.5	5349.5	5408.3	5510.0	5547.4	5590.2	5638.3
10°	5215.7	5215.7	5194.3	5317.4	5370.9	5515.3	5643.7	5745.3	5889.8	5937.9	5943.3
12.5°	5226.4	5242.5	5306.7	5467.2	5616.9	5804.2	5900.5	6093.0	6237.5	6328.4	6360.5
15°	5386.9	5354.8	5424.4	5643.7	5863.0	6028.9	6200.0	6339.1	6547.8	6665.4	6740.3
17.5°	5531.4	5499.3	5627.6	5889.8	6114.4	6371.2	6521.0	6670.8	6820.6	6927.6	6932.9
20°	5761.4	5788.1	5900.5	6184.0	6478.2	6702.9	6874.1	6900.8	6975.7	7130.8	7104.1
22.5°	6044.9	6023.5	6258.9	6569.1	6890.1	7077.3	7173.6	7104.1	7066.6	7232.5	7269.9
25°	6328.4	6392.6	6606.6	6895.5	7280.6	7532.1	7558.8	7366.2	7227.1	7286.0	7269.9
27.5°	6761.7	6772.4	6997.1	7339.5	7730.0	7949.3	7933.3	7660.4	7393.0	7398.3	7409.0
30°	7318.1	7264.6	7510.7	7820.9	8206.1	8404.0	8430.8	8040.3	7681.8	7574.8	7601.6
32.5°	7853.0	7917.2	8131.2	8484.3	8767.8	8880.1	8821.3	8473.6	8008.2	7863.7	7879.8
35°	8537.8	8527.1	8821.3	9120.8	9334.8	9356.2	9308.1	8799.9	8361.2	8174.0	8099.1
37.5°	9270.6	9366.9	9559.5	9805.6	10030.3	10041.0	9778.8	9372.3	8832.0	8521.7	8612.6
40°	10089.1	10196.1	10335.2	10693.6	10859.4	10688.2	10420.8	9869.8	9308.1	9035.3	9078.0
42.5°	10811.3	10859.4	11142.9	11565.6	11645.8	11570.9	11175.0	10506.4	9853.7	9554.2	9575.6
45°	11474.6	11538.8	11907.9	12287.7	12475.0	12346.6	11886.5	11249.9	10490.3	10233.5	10131.9
47.5°	12084.5	12212.8	12571.3	12961.8	13250.6	13261.3	12694.3	11924.0	11121.5	10784.5	10779.2
50°	12496.4	12683.6	13036.7	13480.7	13903.3	14069.1	13502.1	12672.9	11811.6	11453.2	11415.8
52.5°	12721.0	12913.6	13266.7	13956.8	14427.5	14684.3	14416.8	13373.7	12619.4	12244.9	12186.1
55°	12448.2	12576.6	13154.3	14122.6	14850.1	15272.7	15096.2	14341.9	13421.8	13116.9	13170.4
57.5°	11287.4	11554.9	12266.3	13475.3	14839.4	15877.2	15861.2	15256.7	14347.3	14058.4	14069.1
60°	9292.0	9516.7	10394.0	12084.5	14240.3	16123.3	16690.3	16144.7	15385.1	15048.1	15037.4
62.5°	6558.4	6842.0	7858.4	9703.9	12475.0	15780.9	17642.6	17262.7	16401.5	16155.4	16246.3
65°	3669.7	3840.9	4782.4	6451.5	9506.0	13897.9	17813.7	18423.6	17433.9	17059.5	17075.5
67.5°	1963.3	2027.4	2466.1	3386.2	5814.9	10715.0	16085.9	19092.3	18552.0	17904.7	17803.0
70°	1348.1	1369.5	1481.8	1733.2	2749.6	6408.7	12132.6	17899.3	19391.8	18509.2	18680.3
72.5°	1139.4	1128.7	1155.5	1182.2	1439.0	2867.3	7120.1	13774.9	18305.9	17974.2	17910.0
75°	989.7	984.3	995.0	968.3	1000.4	1262.5	3150.8	8585.9	13400.4	14957.1	15197.8
77.5°	818.5	823.8	829.2	802.4	791.7	834.5	1267.8	3771.4	6595.9	7280.6	7853.0
80°	620.5	631.2	674.0	647.3	604.5	609.8	748.9	1262.5	1893.7	1717.2	1770.7
82.5°	422.6	428.0	518.9	486.8	454.7	411.9	481.5	652.6	738.2	561.7	492.2
85°	299.6	294.2	337.0	310.3	288.9	208.6	288.9	369.1	444.0	278.2	251.4
87.5°	69.5	69.5	139.1	112.3	107.0	85.6	112.3	144.4	192.6	123.0	112.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5082.0	5082.0	5082.0	5082.0	5082.0	5082.0	5082.0	5082.0	5082.0	5082.0
2.5°	5178.3	5130.1	5130.1	5119.4	5076.6	5065.9	5028.5	5039.2	5012.5	4985.7
5°	5360.2	5296.0	5296.0	5205.0	5119.4	5108.7	5065.9	5065.9	5023.2	5033.9
7.5°	5611.6	5552.7	5456.5	5376.2	5258.5	5210.4	5130.1	5119.4	5108.7	5087.3
10°	5911.2	5836.3	5740.0	5574.1	5477.9	5386.9	5306.7	5194.3	5167.6	5172.9
12.5°	6317.7	6200.0	5991.4	5847.0	5723.9	5606.2	5488.6	5322.7	5285.3	5301.3
15°	6606.6	6456.8	6248.2	6194.7	6028.9	5884.4	5691.8	5504.6	5440.4	5424.4
17.5°	6842.0	6718.9	6595.9	6515.7	6381.9	6205.4	5937.9	5723.9	5579.5	5563.4
20°	7034.6	6874.1	6847.3	6895.5	6729.6	6611.9	6285.6	6023.5	5830.9	5750.7
22.5°	7152.2	7050.6	7125.5	7168.3	7157.6	6959.7	6622.6	6317.7	6077.0	6002.1
25°	7280.6	7162.9	7430.4	7574.8	7612.3	7286.0	7023.9	6622.6	6387.3	6339.1
27.5°	7344.8	7387.6	7697.9	8002.8	7976.1	7724.6	7371.6	7013.2	6825.9	6740.3
30°	7532.1	7601.6	8072.3	8414.7	8420.1	8174.0	7906.5	7500.0	7291.3	7253.9
32.5°	7869.1	7954.7	8457.5	8821.3	8885.5	8698.2	8430.8	8179.3	7965.4	7879.8
35°	8125.8	8345.2	8912.2	9243.9	9415.1	9302.7	9152.9	8890.8	8666.1	8591.2
37.5°	8495.0	8799.9	9345.5	9794.9	9987.5	9976.8	9864.4	9580.9	9393.7	9329.5
40°	9024.6	9329.5	9827.0	10420.8	10779.2	10763.1	10698.9	10479.6	10201.4	10169.3
42.5°	9586.2	9837.7	10485.0	11164.3	11677.9	11624.4	11453.2	11196.4	11003.9	10961.1
45°	10131.9	10522.4	11121.5	11993.5	12378.7	12512.4	12309.1	11870.5	11651.1	11624.4
47.5°	10816.6	11126.9	11875.8	12656.8	13229.2	13250.6	12902.9	12496.4	12095.2	12180.7
50°	11426.5	11838.4	12598.0	13453.9	14138.6	13892.6	13448.6	12940.4	12651.5	12539.2
52.5°	12079.1	12582.0	13464.6	14336.6	14716.4	14470.3	13748.1	13181.1	12742.4	12694.3
55°	13031.3	13293.4	14448.9	15117.6	15240.6	14721.7	13657.2	12854.8	12287.7	12148.6
57.5°	13999.6	14304.5	15315.5	15893.3	15764.9	14582.7	13068.8	11827.7	11084.1	10886.2
60°	14978.5	15353.0	16203.5	16733.1	16069.8	13625.1	11405.1	9805.6	8939.0	8762.4
62.5°	16069.8	16556.6	17316.2	17503.5	15165.7	11731.4	9051.3	7077.3	6200.0	5905.8
65°	17038.1	17535.6	18471.7	17343.0	13245.3	8751.7	5852.3	4044.2	3396.9	3161.5
67.5°	17835.1	18396.8	18856.9	15347.6	9698.6	5124.8	3049.2	2129.1	1888.4	1802.8
70°	18466.4	19402.5	17252.0	11282.0	5542.1	2498.2	1647.6	1401.6	1369.5	1348.1
72.5°	17915.4	17792.3	12881.5	6510.3	2428.7	1374.8	1192.9	1155.5	1150.1	1155.5
75°	14652.2	13068.8	7703.2	2829.9	1219.7	995.0	989.7	973.6	1000.4	1000.4
77.5°	7109.4	6216.1	3220.4	1214.3	802.4	781.0	807.8	807.8	807.8	807.8
80°	1647.6	1824.2	1150.1	738.2	583.1	583.1	641.9	647.3	620.5	609.8
82.5°	561.7	748.9	631.2	465.4	385.2	433.3	486.8	497.5	411.9	417.3
85°	278.2	438.7	342.4	267.5	197.9	267.5	315.6	331.7	283.5	272.8
87.5°	128.4	192.6	128.4	90.9	69.5	96.3	90.9	74.9	42.8	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)