

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: P478915

Luminaire Tested: **IFLD-S-SA6D-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478915
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ
distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44977 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

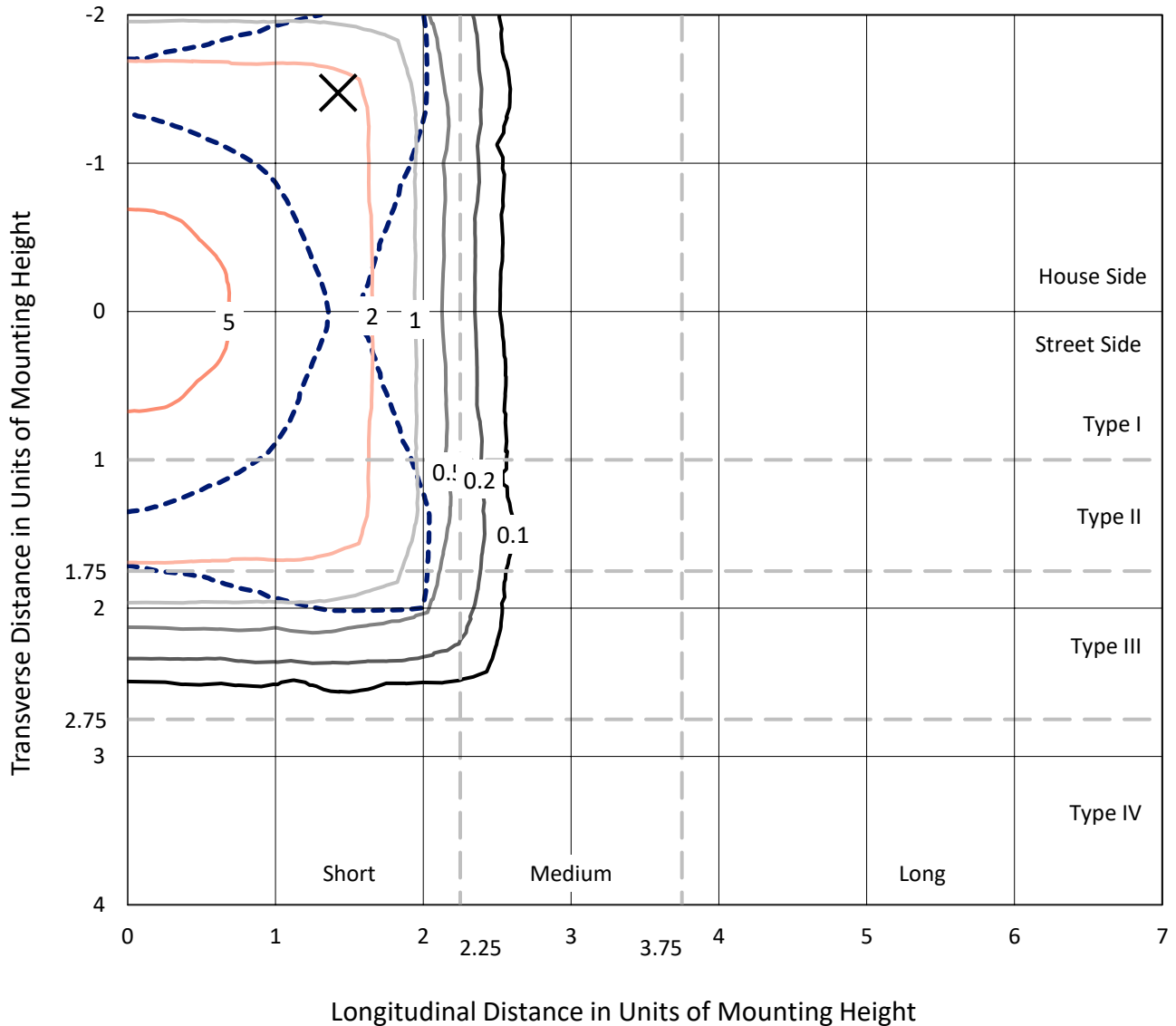
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

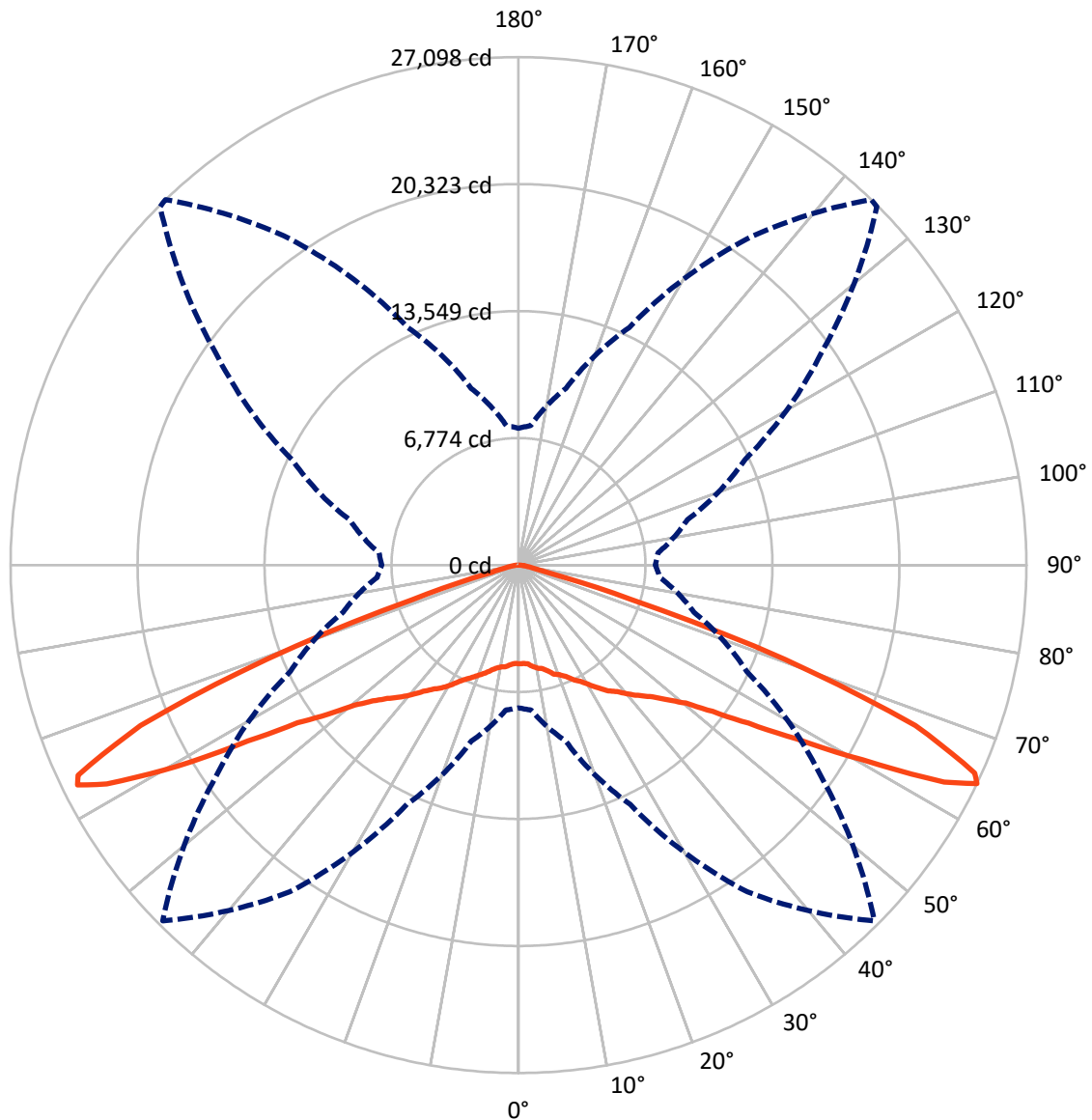
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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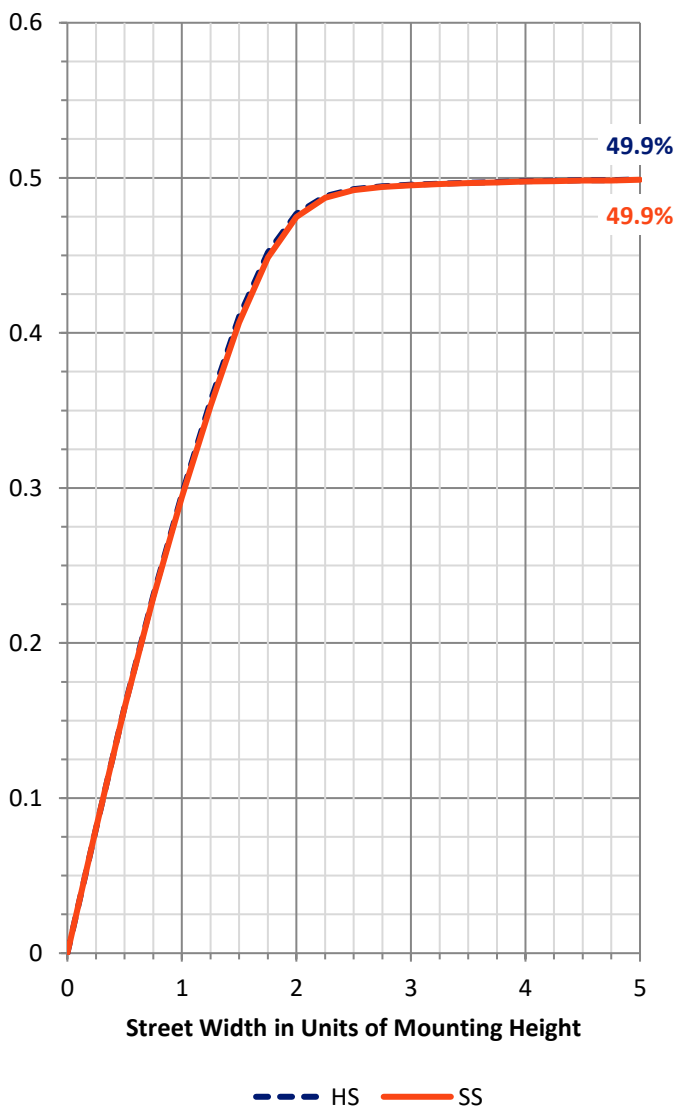
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22509.9	0.0	22509.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22467.1	0.0	22467.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	44977.0	0.0	44977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.4	1.2
10°-20°	1667.6	3.7
20°-30°	3134.1	7.0
30°-40°	5168.7	11.5
40°-50°	8083.6	18.0
50°-60°	13061.1	29.0
60°-70°	11760.6	26.1
70°-80°	1393.1	3.1
80°-90°	190.7	0.4
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°	44977.0	100.0
0°-180°	44977.0	100.0

Coefficient of Utilization



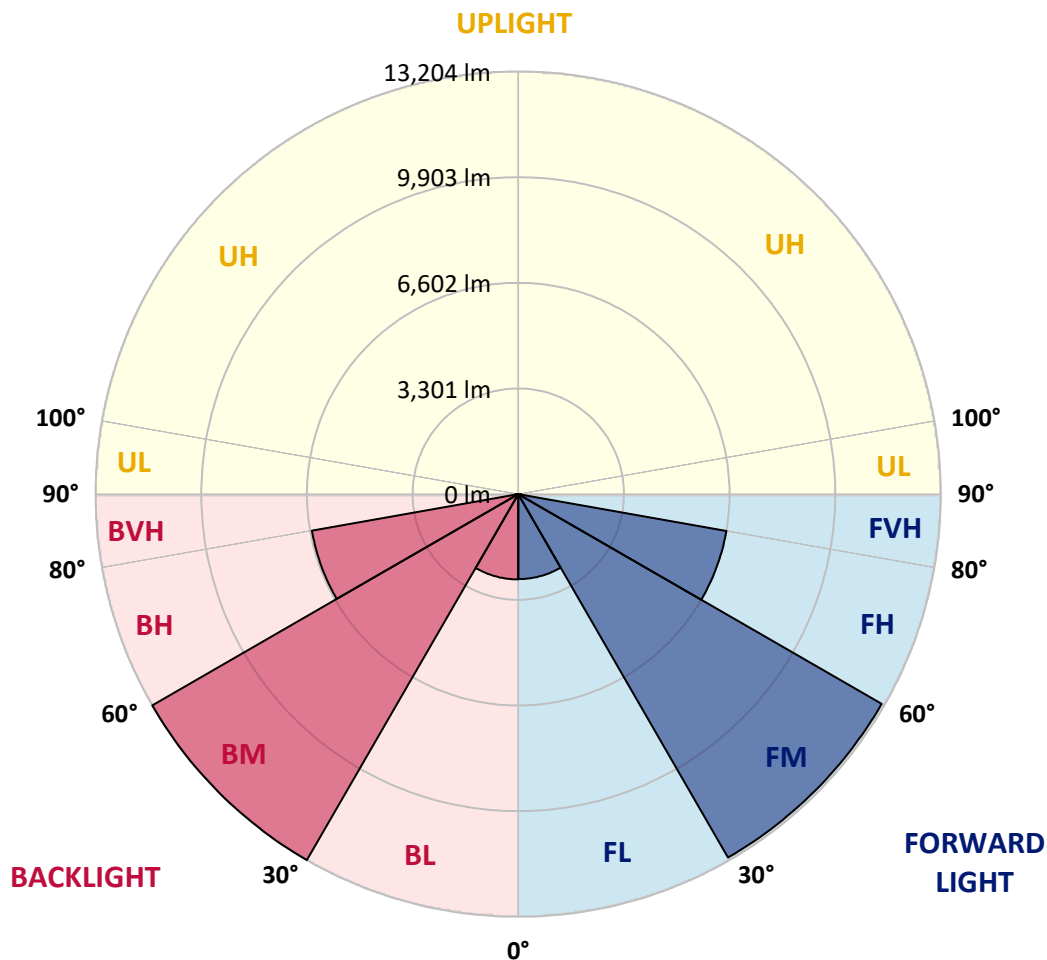
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2654.5	5.9			
FM (30°-60°)	13109.4	29.1			
FH (60°-80°)	6605.4	14.7			G3/7500
FVH (80°-90°)	97.8	0.2			G1/100
BL (0°-30°)	2664.7	5.9	B4/5000		
BM (30°-60°)	13204.0	29.4	B5		
BH (60°-80°)	6548.4	14.6	B5		G3/7500
BVH (80°-90°)	92.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5265.9	5265.9	5265.9	5265.9	5265.9	5265.9	5265.9	5265.9	5265.9	5265.9	5265.9
2.5°	5204.0	5214.3	5307.1	5271.0	5302.0	5245.3	5286.5	5374.2	5271.0	5348.4	5374.2
5°	5260.7	5276.2	5276.2	5312.3	5332.9	5322.6	5348.4	5312.3	5410.3	5369.0	5430.9
7.5°	5467.0	5441.2	5400.0	5430.9	5436.1	5461.9	5487.7	5534.1	5518.6	5482.5	5544.4
10°	5503.1	5482.5	5544.4	5549.5	5523.8	5503.1	5528.9	5528.9	5575.3	5585.7	5585.7
12.5°	5565.0	5585.7	5580.5	5621.8	5626.9	5611.4	5652.7	5730.1	5709.4	5724.9	5688.8
15°	5802.3	5776.5	5771.3	5812.6	5879.6	5781.6	5853.8	5848.7	5828.1	5859.0	5776.5
17.5°	6008.6	5926.1	5962.2	6029.2	6003.4	6024.0	6116.9	6034.4	6055.0	6018.9	5993.1
20°	6189.1	6122.0	6127.2	6153.0	6153.0	6214.9	6251.0	6220.0	6199.4	6194.2	6204.6
22.5°	6390.2	6312.9	6318.0	6426.3	6462.4	6441.8	6416.0	6467.6	6477.9	6436.7	6483.1
25°	6539.8	6622.3	6648.1	6699.7	6622.3	6679.1	6658.4	6756.4	6818.3	6735.8	6792.5
27.5°	6931.8	6895.7	6962.7	6957.6	7019.5	6962.7	6998.8	7029.8	7055.6	7060.7	7034.9
30°	7282.5	7298.0	7230.9	7411.4	7267.0	7359.9	7421.7	7437.2	7468.2	7468.2	7390.8
32.5°	7653.8	7622.9	7731.2	7689.9	7664.2	7736.4	7669.3	7880.8	7757.0	7829.2	7741.5
35°	8071.6	8071.6	8112.9	8226.3	8071.6	8025.2	8149.0	8236.6	8236.6	8107.7	8138.7
37.5°	8540.9	8499.7	8551.3	8695.7	8577.0	8422.3	8649.3	8685.4	8659.6	8623.5	8561.6
40°	8871.0	8860.7	8963.9	9154.7	8984.5	8953.5	8994.8	9092.8	9123.7	9159.8	9077.3
42.5°	9428.0	9474.5	9773.6	9727.2	9587.9	9479.6	9469.3	9835.5	9747.8	9655.0	9608.6
45°	10253.3	10212.0	10366.7	10371.9	10191.4	9954.1	10005.7	10340.9	10490.5	10284.2	10361.6
47.5°	10908.3	10928.9	11037.2	11259.0	10841.2	10593.7	10784.5	11326.0	11279.6	11202.2	11274.5
50°	11785.1	11877.9	12218.3	12140.9	11769.6	11465.3	11883.0	12393.6	12450.4	12166.7	12115.1
52.5°	12997.1	13141.5	13327.2	13389.1	13033.2	12924.9	12950.7	13585.0	13445.8	13172.4	12997.1
55°	14059.5	14126.6	14467.0	14977.6	14951.8	14430.9	14730.0	14967.3	14399.9	13837.8	13884.2
57.5°	14513.4	14544.4	15493.3	16514.5	17123.1	17241.8	16901.4	16101.9	14750.7	13667.6	13600.5
60°	13383.9	13677.9	14822.9	17128.3	19908.2	21280.1	19016.0	16230.9	13930.6	12615.4	12517.4
62.5°	10696.8	10712.3	12414.3	15911.1	21641.2	25236.0	19825.7	15018.9	11743.8	10253.3	9861.3
64°	7617.7	7762.1	9716.9	14085.3	21280.1	26845.2	19727.7	13435.5	9680.8	7566.2	7292.8
65°	5467.0	5668.2	7555.8	12228.6	20434.3	26654.3	19433.7	12073.9	7829.2	5776.5	5498.0
67.5°	2011.5	2094.0	2965.6	6116.9	14673.3	22714.0	15400.5	6637.8	3440.1	2449.8	2202.3
70°	933.5	938.7	1098.6	2021.8	6416.0	15189.1	7349.5	2491.1	1294.6	1026.4	954.2
72.5°	686.0	701.4	768.5	933.5	1887.7	6431.5	2413.7	1021.2	758.2	670.5	655.0
75°	557.0	567.3	588.0	675.6	871.6	1722.6	979.9	706.6	603.4	541.5	520.9
77.5°	428.1	428.1	474.5	515.8	577.6	804.6	649.9	562.2	490.0	428.1	412.6
80°	309.5	314.6	371.3	402.3	392.0	531.2	469.3	464.2	402.3	335.2	309.5
82.5°	180.5	196.0	268.2	288.8	278.5	314.6	340.4	361.0	314.6	232.1	211.5
85°	103.2	108.3	154.7	159.9	159.9	149.6	196.0	216.6	211.5	144.4	128.9
87.5°	30.9	30.9	41.3	41.3	46.4	51.6	77.4	92.8	103.2	72.2	67.0
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°	136°	145°	155°	165°	175°	180°
0°	5265.9	5265.9	5265.9	5265.9	5265.9	5265.9	5265.9	5265.9	5265.9	5265.9	5265.9
2.5°	5348.4	5271.0	5276.2	5296.8	5229.8	5255.6	5332.9	5276.2	5260.7	5229.8	5214.3
5°	5322.6	5405.1	5374.2	5384.5	5369.0	5296.8	5286.5	5332.9	5358.7	5312.3	5405.1
7.5°	5503.1	5467.0	5425.8	5441.2	5405.1	5467.0	5508.3	5415.5	5461.9	5436.1	5384.5
10°	5606.3	5539.2	5570.2	5559.9	5534.1	5596.0	5554.7	5544.4	5503.1	5446.4	5528.9
12.5°	5642.4	5719.7	5771.3	5683.6	5699.1	5668.2	5642.4	5642.4	5596.0	5580.5	5596.0
15°	5802.3	5869.3	5848.7	5915.7	5828.1	5859.0	5889.9	5812.6	5853.8	5740.4	5828.1
17.5°	6096.3	6039.5	6111.7	6024.0	6055.0	6116.9	6018.9	6018.9	6049.8	5987.9	5910.6
20°	6281.9	6256.1	6230.3	6235.5	6183.9	6240.7	6209.7	6194.2	6147.8	6168.5	6209.7
22.5°	6457.3	6421.2	6431.5	6447.0	6483.1	6457.3	6441.8	6457.3	6343.8	6447.0	6302.6
25°	6673.9	6771.9	6740.9	6808.0	6704.8	6771.9	6766.7	6668.7	6730.6	6689.4	6658.4
27.5°	7034.9	6983.4	7029.8	6947.3	7019.5	7024.6	6962.7	7127.8	7055.6	7045.2	7024.6
30°	7499.1	7463.0	7432.1	7385.6	7442.4	7396.0	7447.5	7463.0	7396.0	7344.4	7246.4
32.5°	7762.1	7860.1	7896.2	7782.8	7787.9	7813.7	7767.3	7720.9	7762.1	7777.6	7762.1
35°	8133.5	8226.3	8247.0	8159.3	8112.9	8241.8	8149.0	8303.7	8169.6	8174.8	8035.5
37.5°	8566.7	8592.5	8767.9	8669.9	8628.6	8566.7	8736.9	8716.3	8747.2	8499.7	8623.5
40°	9056.7	9149.5	9247.5	9000.0	8994.8	9051.5	9041.2	9159.8	9103.1	9067.0	8979.3
42.5°	9593.1	9789.1	9804.5	9639.5	9536.4	9526.0	9577.6	9840.6	9845.8	9608.6	9505.4
45°	10304.8	10521.4	10464.7	10144.9	10031.5	10016.0	10268.7	10382.2	10480.2	10387.4	10299.7
47.5°	11191.9	11336.3	11295.1	11001.1	10634.9	10738.1	10985.6	11341.5	11238.4	11114.6	11011.4
50°	12140.9	12311.1	12223.4	11929.5	11578.8	11578.8	11883.0	12336.9	12306.0	12063.6	11970.7
52.5°	13193.1	13440.6	13641.8	13224.0	12930.0	12976.5	13456.1	13621.2	13543.8	13373.6	13296.2
55°	13977.0	14451.5	14864.1	14884.8	14900.2	14895.1	15018.9	15183.9	14632.0	14358.7	14080.2
57.5°	13786.2	14683.6	16096.8	17056.1	17339.8	17489.3	17448.1	16684.7	15379.9	14482.5	14575.3
60°	12424.6	13889.3	16169.0	19248.1	21311.1	21104.8	20351.8	17334.6	14967.3	13451.0	13260.1
62.5°	9912.9	11676.7	14957.0	19867.0	25550.6	25488.7	21548.3	15833.7	12471.0	10552.4	10433.8
64°	7468.2	9324.9	13342.6	19707.1	27036.0	27097.9	21244.0	13987.3	9758.1	7468.2	7287.7
65°	5714.6	7437.2	11759.3	19377.0	26716.2	26752.3	20398.2	12079.0	7416.6	5302.0	5106.0
67.5°	2274.5	3166.7	6379.9	14693.9	22940.9	22842.9	14554.7	5843.5	2836.7	1846.4	1810.3
70°	969.6	1206.9	2238.4	6962.7	15359.3	15075.6	6266.5	1898.0	1052.1	881.9	876.8
72.5°	665.3	737.5	959.3	2150.7	6385.1	6235.5	1784.5	881.9	716.9	660.2	660.2
75°	536.4	588.0	696.3	902.6	1691.7	1629.8	840.7	649.9	572.5	531.2	526.1
77.5°	417.8	469.3	546.7	624.1	773.6	768.5	562.2	490.0	443.6	412.6	402.3
80°	330.1	381.7	433.2	443.6	505.4	495.1	381.7	386.8	361.0	299.1	294.0
82.5°	226.9	309.5	345.6	314.6	299.1	299.1	273.4	273.4	252.7	185.7	170.2
85°	139.3	206.3	216.6	185.7	139.3	139.3	149.6	144.4	134.1	98.0	92.8
87.5°	72.2	98.0	87.7	72.2	46.4	46.4	41.3	30.9	30.9	25.8	25.8
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)