

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: P478889

Luminaire Tested: **IFLD-L-SA8B-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478889
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

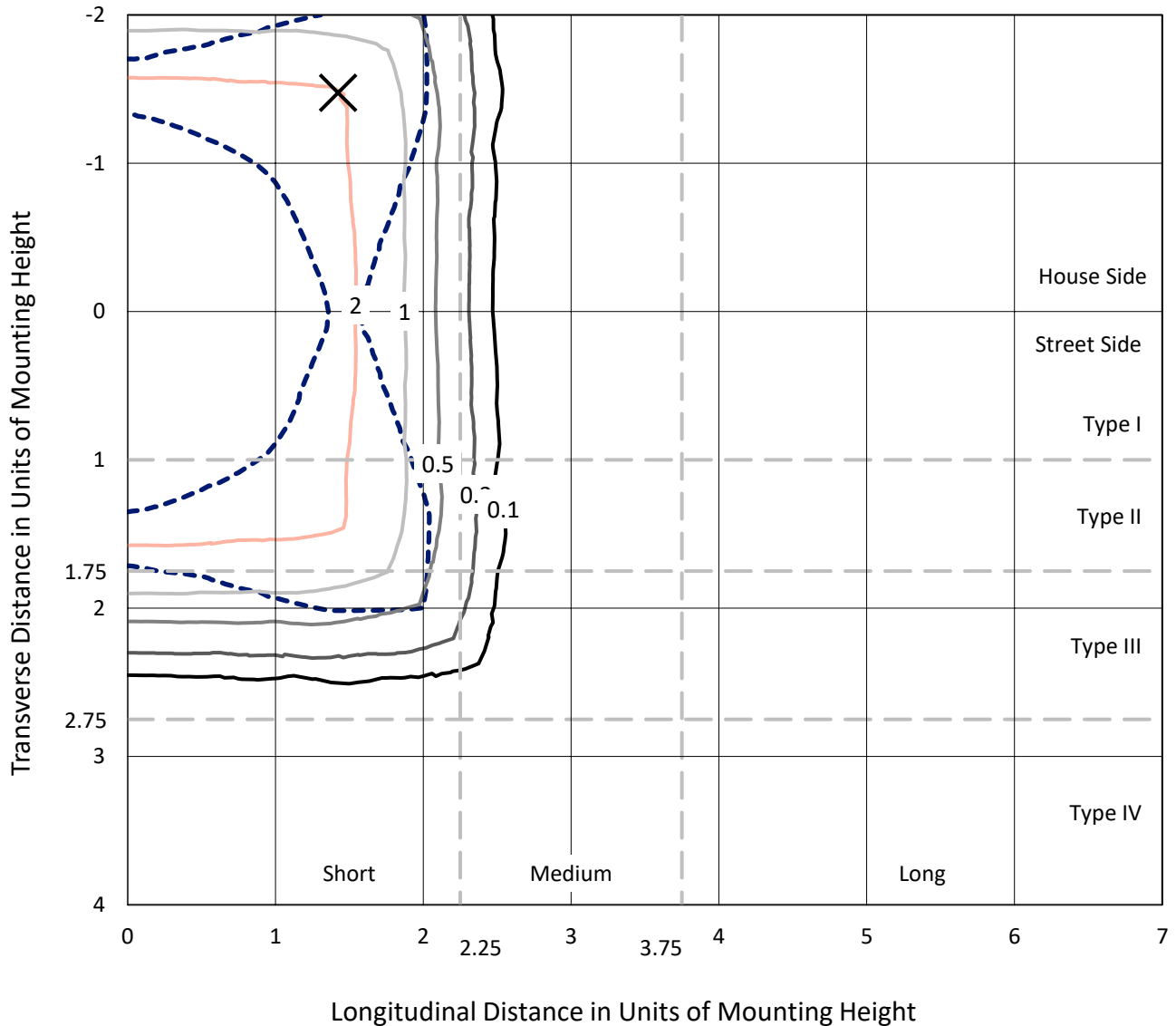
Lumens per Lamp: N/A
Luminaire Lumens: 36962.9 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 320
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

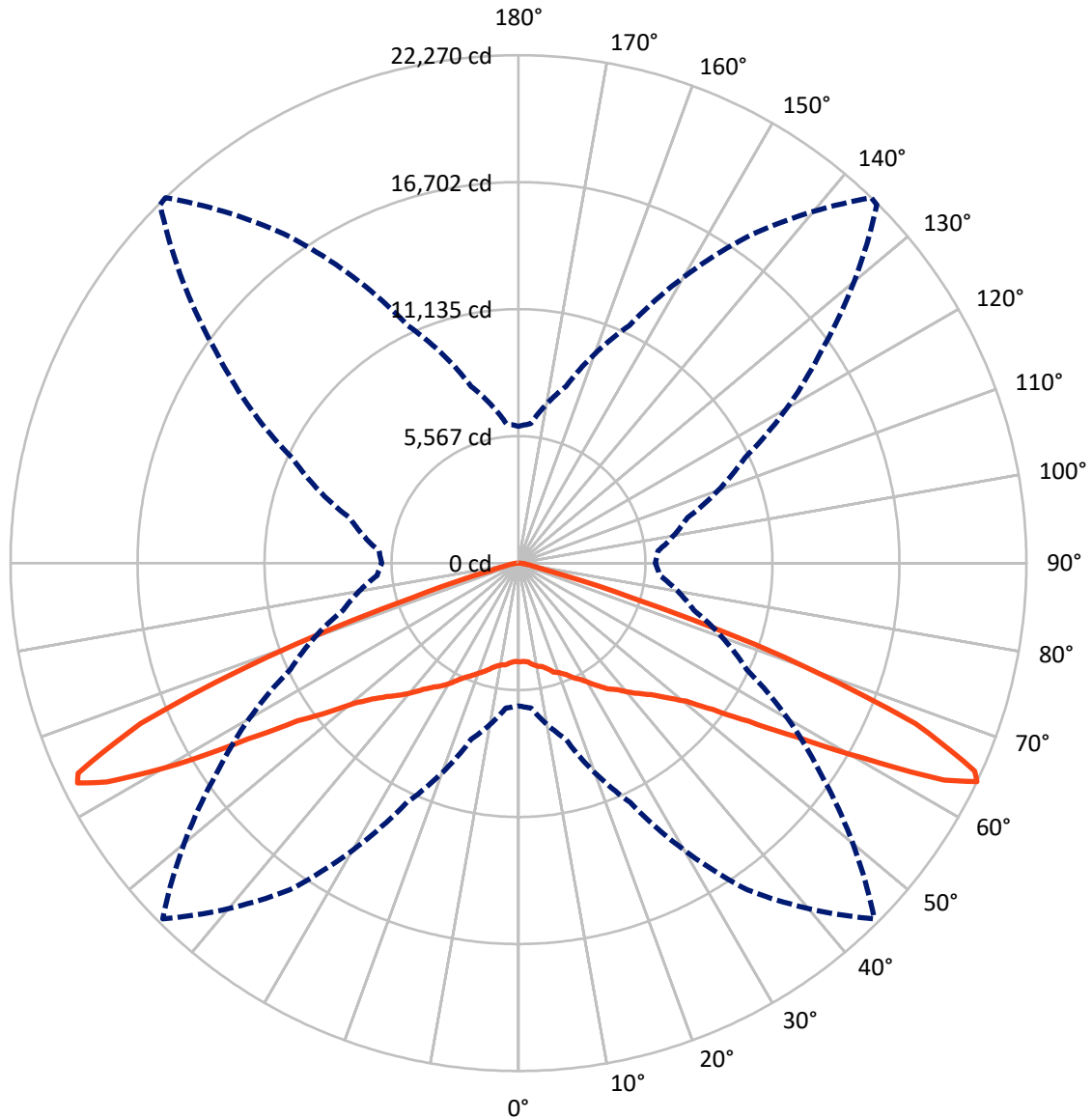
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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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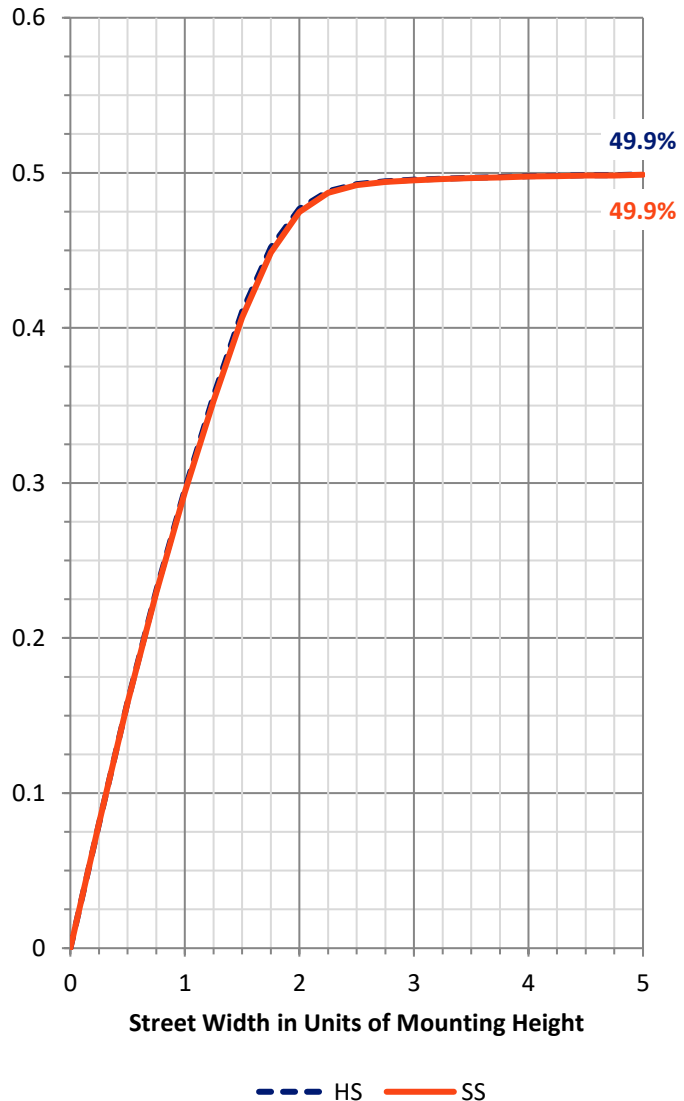
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18499.0	0.0	18499.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18463.8	0.0	18463.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	36962.9	0.0	36962.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.2	1.2
10°-20°	1370.5	3.7
20°-30°	2575.7	7.0
30°-40°	4247.8	11.5
40°-50°	6643.2	18.0
50°-60°	10733.8	29.0
60°-70°	9665.1	26.1
70°-80°	1144.9	3.1
80°-90°	156.7	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°	36962.9	100.0
0°-180°	36962.9	100.0

Coefficient of Utilization



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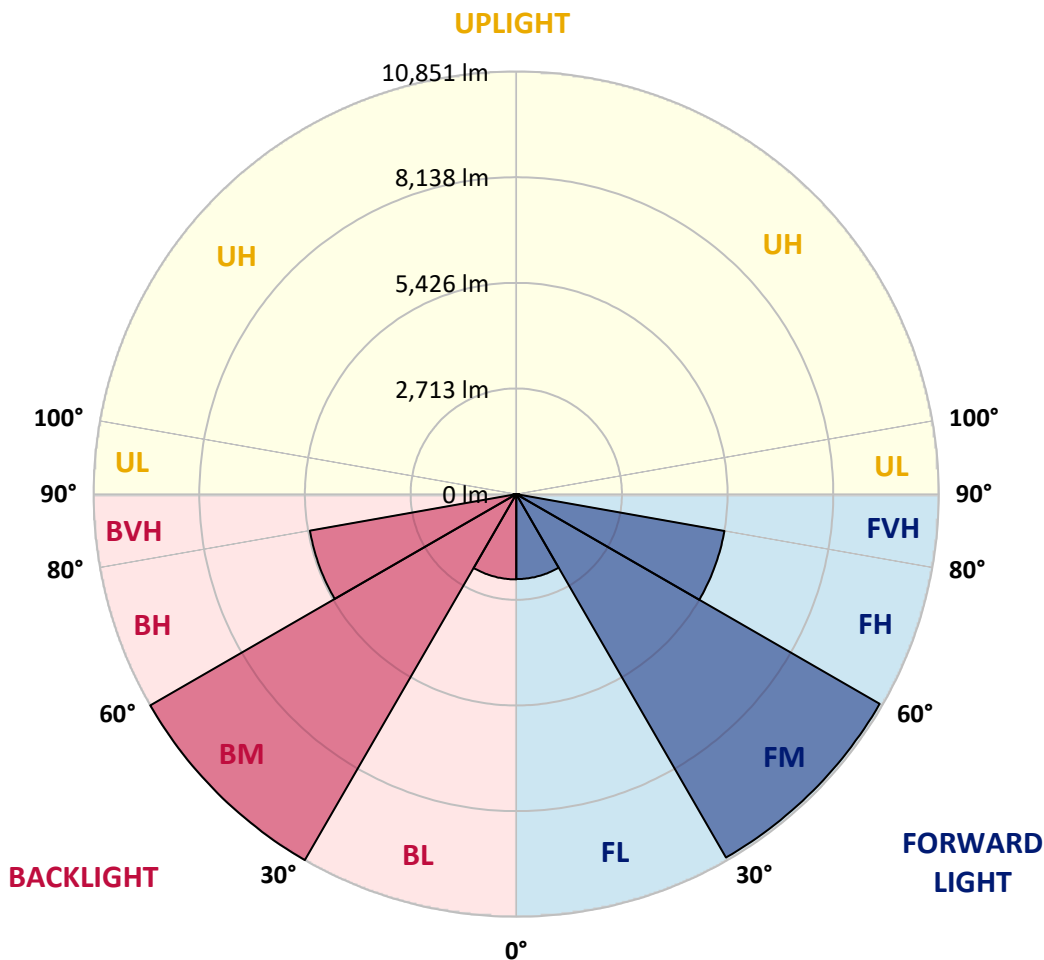
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2181.5	5.9			
FM	(30°-60°)	10773.5	29.1			
FH	(60°-80°)	5428.4	14.7			G3/7500
FVH	(80°-90°)	80.4	0.2			G1/100
BL	(0°-30°)	2189.9	5.9	B3/2500		
BM	(30°-60°)	10851.3	29.4	B5		
BH	(60°-80°)	5381.6	14.6	B5		G3/7500
BVH	(80°-90°)	76.3	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°	4327.6	4327.6	4327.6	4327.6	4327.6	4327.6	4327.6	4327.6	4327.6	4327.6	4327.6
2.5°	4276.7	4285.2	4361.5	4331.8	4357.3	4310.6	4344.5	4416.6	4331.8	4395.4	4416.6
5°	4323.4	4336.1	4336.1	4365.7	4382.7	4374.2	4395.4	4365.7	4446.3	4412.4	4463.2
7.5°	4492.9	4471.7	4437.8	4463.2	4467.5	4488.7	4509.9	4548.0	4535.3	4505.6	4556.5
10°	4522.6	4505.6	4556.5	4560.7	4539.5	4522.6	4543.8	4543.8	4581.9	4590.4	4590.4
12.5°	4573.4	4590.4	4586.1	4620.1	4624.3	4611.6	4645.5	4709.1	4692.1	4704.8	4675.2
15°	4768.4	4747.2	4743.0	4776.9	4832.0	4751.5	4810.8	4806.6	4789.6	4815.0	4747.2
17.5°	4937.9	4870.1	4899.8	4954.9	4933.7	4950.7	5027.0	4959.1	4976.1	4946.4	4925.2
20°	5086.3	5031.2	5035.4	5056.6	5056.6	5107.5	5137.2	5111.7	5094.8	5090.5	5099.0
22.5°	5251.6	5188.0	5192.3	5281.3	5310.9	5294.0	5272.8	5315.2	5323.7	5289.8	5327.9
25°	5374.5	5442.3	5463.5	5505.9	5442.3	5489.0	5472.0	5552.5	5603.4	5535.6	5582.2
27.5°	5696.7	5667.0	5722.1	5717.8	5768.7	5722.1	5751.8	5777.2	5798.4	5802.6	5781.4
30°	5984.9	5997.6	5942.5	6090.8	5972.2	6048.5	6099.3	6112.0	6137.5	6137.5	6073.9
32.5°	6290.1	6264.6	6353.6	6319.7	6298.5	6357.9	6302.8	6476.6	6374.8	6434.2	6362.1
35°	6633.4	6633.4	6667.3	6760.5	6633.4	6595.2	6697.0	6769.0	6769.0	6663.1	6688.5
37.5°	7019.1	6985.2	7027.6	7146.3	7048.8	6921.6	7108.1	7137.8	7116.6	7086.9	7036.0
40°	7290.4	7281.9	7366.7	7523.5	7383.6	7358.2	7392.1	7472.6	7498.1	7527.7	7459.9
42.5°	7748.1	7786.3	8032.1	7994.0	7879.5	7790.5	7782.0	8083.0	8010.9	7934.6	7896.5
45°	8426.3	8392.4	8519.6	8523.8	8375.4	8180.5	8222.9	8498.4	8621.3	8451.7	8515.3
47.5°	8964.6	8981.6	9070.6	9252.8	8909.5	8706.0	8862.9	9307.9	9269.8	9206.2	9265.5
50°	9685.2	9761.5	10041.2	9977.6	9672.4	9422.4	9765.7	10185.3	10231.9	9998.8	9956.4
52.5°	10681.2	10799.9	10952.5	11003.4	10710.9	10621.9	10643.1	11164.4	11050.0	10825.3	10681.2
55°	11554.4	11609.5	11889.2	12308.8	12287.7	11859.6	12105.4	12300.4	11834.1	11372.1	11410.3
57.5°	11927.4	11952.8	12732.7	13571.9	14072.1	14169.6	13889.8	13232.9	12122.3	11232.2	11177.1
60°	10999.1	11240.7	12181.7	14076.3	16360.9	17488.4	15627.7	13338.8	11448.4	10367.6	10287.0
62.5°	8790.8	8803.5	10202.3	13076.0	17785.1	20739.4	16293.1	12342.8	9651.3	8426.3	8104.2
64°	6260.4	6379.1	7985.5	11575.6	17488.4	22061.8	16212.6	11041.5	7955.8	6218.0	5993.4
65°	4492.9	4658.2	6209.5	10049.7	16793.3	21905.0	15971.0	9922.5	6434.2	4747.2	4518.3
67.5°	1653.0	1720.9	2437.2	5027.0	12058.8	18666.7	12656.4	5455.1	2827.1	2013.3	1809.9
70°	767.2	771.4	902.8	1661.5	5272.8	12482.6	6040.0	2047.2	1063.9	843.5	784.1
72.5°	563.7	576.4	631.5	767.2	1551.3	5285.5	1983.7	839.2	623.1	551.0	538.3
75°	457.8	466.2	483.2	555.3	716.3	1415.7	805.3	580.7	495.9	445.1	428.1
77.5°	351.8	351.8	389.9	423.9	474.7	661.2	534.1	462.0	402.7	351.8	339.1
80°	254.3	258.6	305.2	330.6	322.1	436.6	385.7	381.5	330.6	275.5	254.3
82.5°	148.4	161.1	220.4	237.4	228.9	258.6	279.7	296.7	258.6	190.7	173.8
85°	84.8	89.0	127.2	131.4	131.4	122.9	161.1	178.0	173.8	118.7	106.0
87.5°	25.4	25.4	33.9	33.9	38.1	42.4	63.6	76.3	84.8	59.3	55.1
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°	4327.6	4327.6	4327.6	4327.6	4327.6	4327.6	4327.6	4327.6	4327.6	4327.6	4327.6
2.5°	4395.4	4331.8	4336.1	4353.0	4297.9	4319.1	4382.7	4336.1	4323.4	4297.9	4285.2
5°	4374.2	4442.0	4416.6	4425.1	4412.4	4353.0	4344.5	4382.7	4403.9	4365.7	4442.0
7.5°	4522.6	4492.9	4459.0	4471.7	4442.0	4492.9	4526.8	4450.5	4488.7	4467.5	4425.1
10°	4607.3	4552.2	4577.7	4569.2	4548.0	4598.9	4565.0	4556.5	4522.6	4475.9	4543.8
12.5°	4637.0	4700.6	4743.0	4670.9	4683.6	4658.2	4637.0	4637.0	4598.9	4586.1	4598.9
15°	4768.4	4823.5	4806.6	4861.7	4789.6	4815.0	4840.5	4776.9	4810.8	4717.5	4789.6
17.5°	5010.0	4963.4	5022.7	4950.7	4976.1	5027.0	4946.4	4946.4	4971.9	4921.0	4857.4
20°	5162.6	5141.4	5120.2	5124.4	5082.1	5128.7	5103.3	5090.5	5052.4	5069.3	5103.3
22.5°	5306.7	5277.0	5285.5	5298.2	5327.9	5306.7	5294.0	5306.7	5213.5	5298.2	5179.5
25°	5484.7	5565.3	5539.8	5594.9	5510.2	5565.3	5561.0	5480.5	5531.4	5497.4	5472.0
27.5°	5781.4	5739.0	5777.2	5709.4	5768.7	5772.9	5722.1	5857.7	5798.4	5789.9	5772.9
30°	6162.9	6133.2	6107.8	6069.7	6116.3	6078.1	6120.5	6133.2	6078.1	6035.7	5955.2
32.5°	6379.1	6459.6	6489.3	6396.0	6400.3	6421.5	6383.3	6345.2	6379.1	6391.8	6379.1
35°	6684.2	6760.5	6777.5	6705.4	6667.3	6773.3	6697.0	6824.1	6713.9	6718.2	6603.7
37.5°	7040.3	7061.5	7205.6	7125.1	7091.1	7040.3	7180.2	7163.2	7188.6	6985.2	7086.9
40°	7443.0	7519.2	7599.8	7396.3	7392.1	7438.7	7430.2	7527.7	7481.1	7451.4	7379.4
42.5°	7883.8	8044.8	8057.5	7921.9	7837.1	7828.7	7871.0	8087.2	8091.5	7896.5	7811.7
45°	8468.7	8646.7	8600.1	8337.3	8244.0	8231.3	8439.0	8532.3	8612.8	8536.5	8464.4
47.5°	9197.7	9316.4	9282.5	9040.9	8740.0	8824.7	9028.2	9320.6	9235.9	9134.1	9049.4
50°	9977.6	10117.5	10045.4	9803.8	9515.6	9515.6	9765.7	10138.7	10113.3	9914.0	9837.8
52.5°	10842.3	11045.7	11211.1	10867.7	10626.1	10664.3	11058.5	11194.1	11130.5	10990.6	10927.1
55°	11486.6	11876.5	12215.6	12232.6	12245.3	12241.0	12342.8	12478.4	12024.9	11800.2	11571.3
57.5°	11329.7	12067.2	13228.6	14017.0	14250.1	14373.0	14339.1	13711.8	12639.5	11901.9	11978.2
60°	10210.7	11414.5	13288.0	15818.4	17513.8	17344.3	16725.4	14245.9	12300.4	11054.2	10897.4
62.5°	8146.6	9596.2	12291.9	16327.0	20997.9	20947.1	17708.8	13012.4	10248.9	8672.1	8574.7
64°	6137.5	7663.4	10965.2	16195.6	22218.7	22269.5	17458.7	11495.0	8019.4	6137.5	5989.1
65°	4696.3	6112.0	9664.0	15924.4	21955.9	21985.5	16763.6	9926.8	6095.1	4357.3	4196.2
67.5°	1869.2	2602.5	5243.1	12075.7	18853.2	18772.7	11961.3	4802.3	2331.2	1517.4	1487.7
70°	796.9	991.8	1839.5	5722.1	12622.5	12389.4	5149.9	1559.8	864.7	724.8	720.6
72.5°	546.8	606.1	788.4	1767.5	5247.4	5124.4	1466.5	724.8	589.2	542.5	542.5
75°	440.8	483.2	572.2	741.8	1390.3	1339.4	690.9	534.1	470.5	436.6	432.3
77.5°	343.3	385.7	449.3	512.9	635.8	631.5	462.0	402.7	364.5	339.1	330.6
80°	271.3	313.7	356.0	364.5	415.4	406.9	313.7	317.9	296.7	245.8	241.6
82.5°	186.5	254.3	284.0	258.6	245.8	245.8	224.6	224.6	207.7	152.6	139.9
85°	114.4	169.5	178.0	152.6	114.4	114.4	122.9	118.7	110.2	80.5	76.3
87.5°	59.3	80.5	72.1	59.3	38.1	38.1	33.9	25.4	25.4	21.2	21.2
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)