

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: P479393

Luminaire Tested: **IFLD-L-SA7D-750-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479393
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

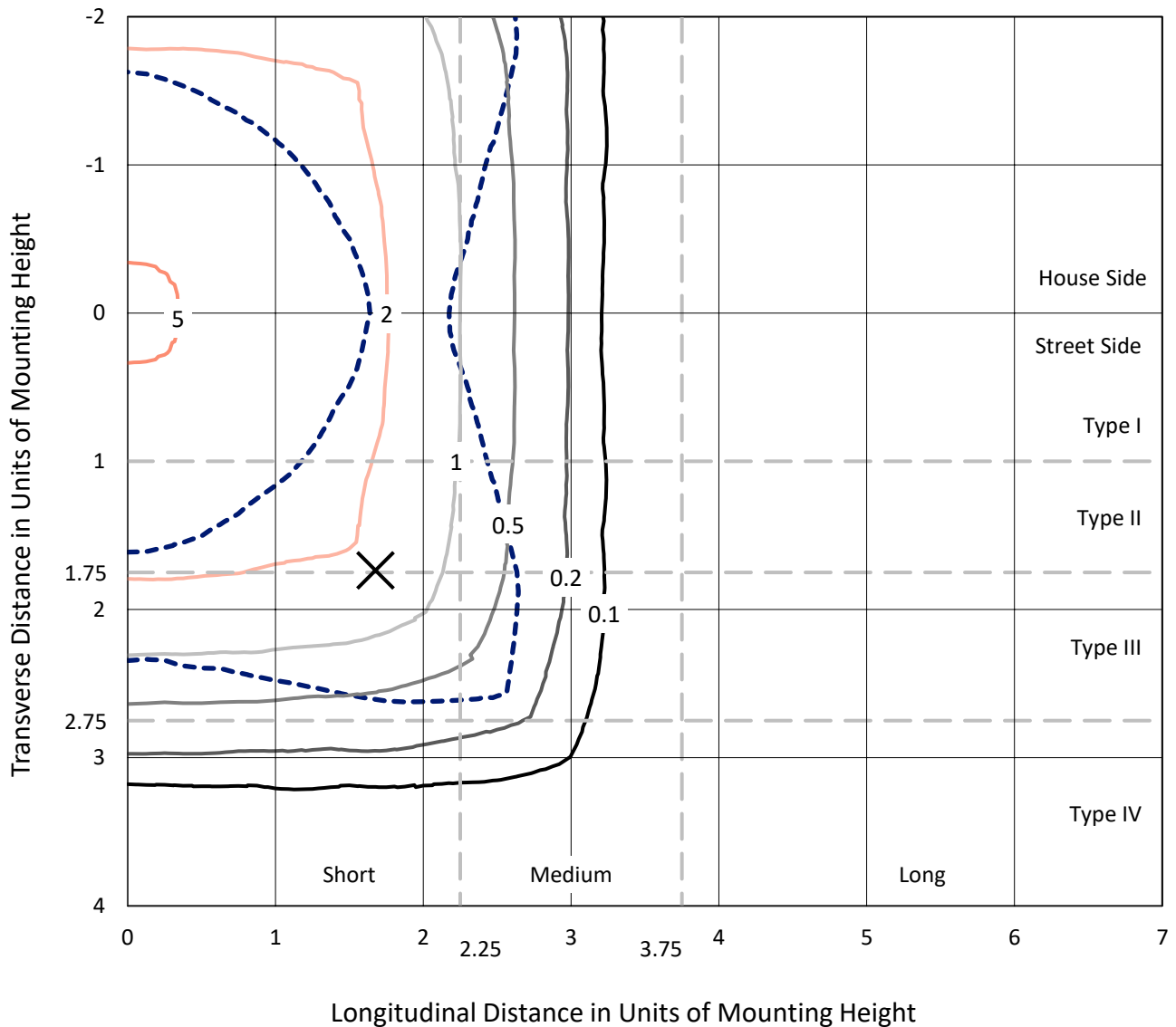
Lumens per Lamp: N/A
Luminaire Lumens: 50365.6 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 422.6
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

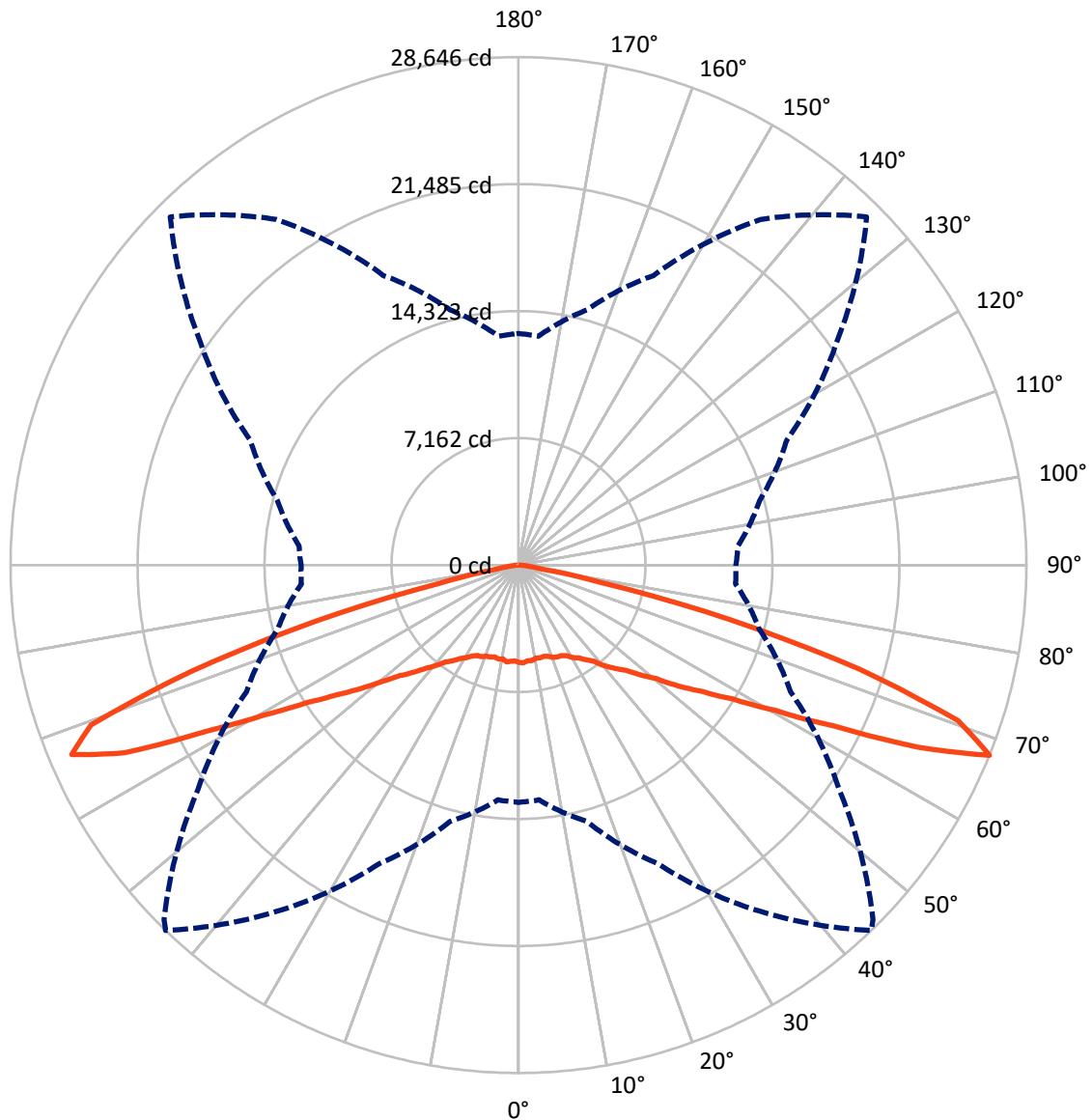
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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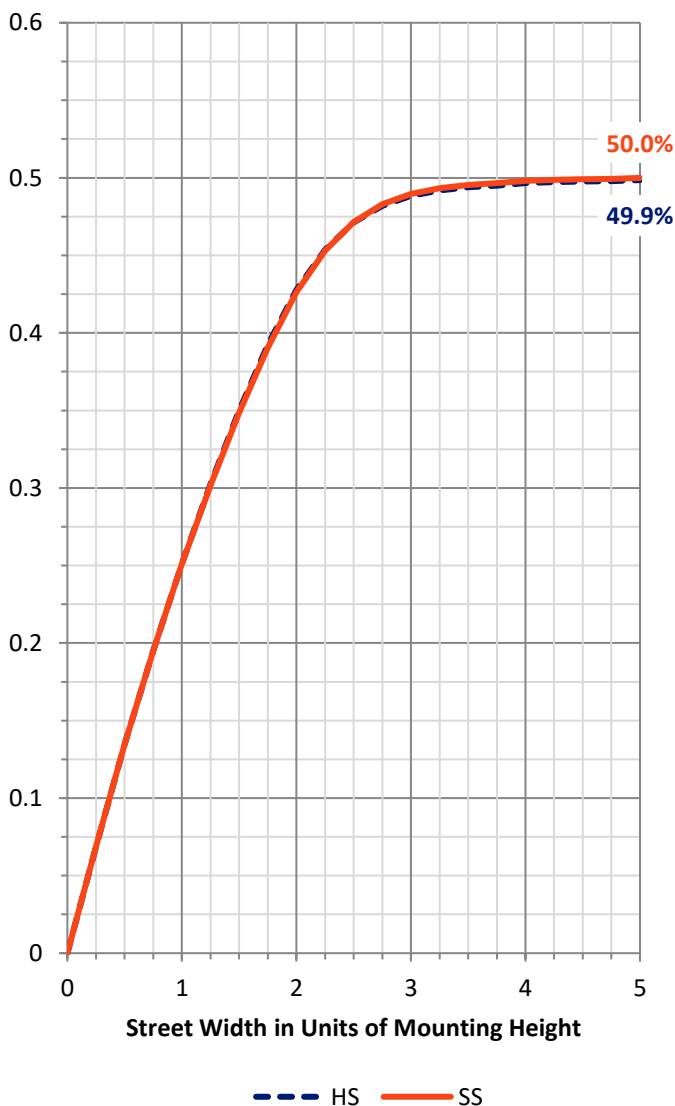
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25118.3	0.0	25118.3
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	25247.3	0.0	25247.3
	% Fixture	50.1	0.0	50.1
Total	Lumens	50365.6	0.0	50365.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.6	1.0
10°-20°	1521.0	3.0
20°-30°	2586.5	5.1
30°-40°	4100.9	8.1
40°-50°	6687.0	13.3
50°-60°	11420.4	22.7
60°-70°	17370.3	34.5
70°-80°	5854.9	11.6
80°-90°	304.0	0.6
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°	50365.6	100.0
0°-180°	50365.6	100.0

Coefficient of Utilization



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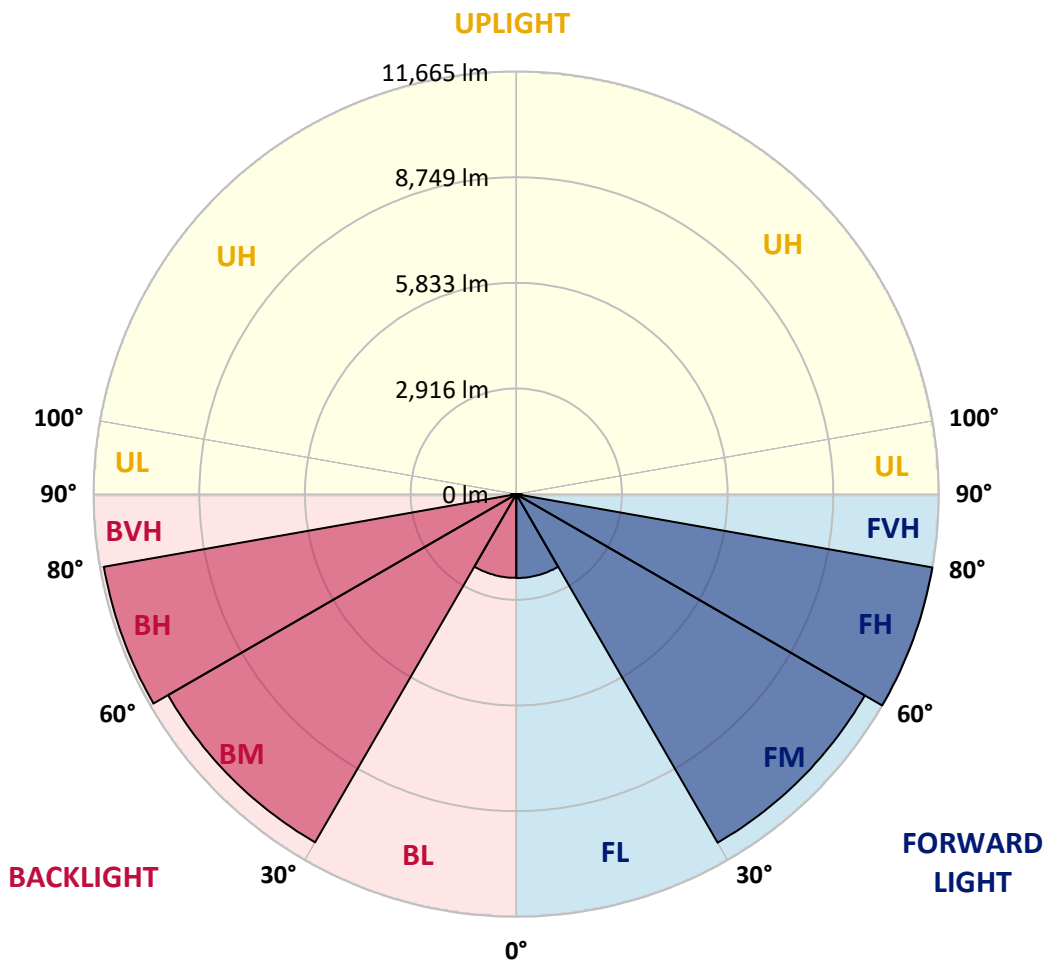
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2316.4	4.6			
FM (30°-60°)	11110.2	22.1			
FH (60°-80°)	11665.2	23.2			G4/12000
FVH (80°-90°)	155.5	0.3			G2/225
BL (0°-30°)	2311.6	4.6	B3/2500		
BM (30°-60°)	11098.2	22.0	B5		
BH (60°-80°)	11560.0	23.0	B5		G4/12000
BVH (80°-90°)	148.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5501.6	5501.6	5501.6	5501.6	5501.6	5501.6	5501.6	5501.6	5501.6	5501.6	5501.6
2.5°	5375.1	5438.3	5484.3	5478.6	5495.8	5513.1	5490.1	5524.6	5501.6	5541.8	5564.8
5°	5478.6	5461.3	5467.1	5432.6	5513.1	5421.1	5421.1	5467.1	5524.6	5455.6	5495.8
7.5°	5415.3	5403.8	5375.1	5426.8	5444.1	5444.1	5490.1	5403.8	5501.6	5524.6	5530.3
10°	5346.4	5283.1	5369.3	5421.1	5432.6	5340.6	5380.8	5403.8	5375.1	5403.8	5421.1
12.5°	5288.9	5323.4	5323.4	5323.4	5306.1	5369.3	5409.6	5403.8	5346.4	5398.1	5306.1
15°	5283.1	5265.9	5317.6	5363.6	5334.9	5346.4	5363.6	5415.3	5306.1	5329.1	5329.1
17.5°	5277.4	5300.4	5317.6	5311.9	5409.6	5409.6	5392.3	5357.9	5444.1	5398.1	5334.9
20°	5300.4	5283.1	5329.1	5346.4	5415.3	5553.3	5501.6	5472.8	5426.8	5369.3	5369.3
22.5°	5329.1	5317.6	5380.8	5455.6	5587.8	5622.3	5616.5	5582.1	5501.6	5432.6	5421.1
25°	5432.6	5329.1	5398.1	5541.8	5587.8	5656.8	5702.8	5656.8	5547.6	5564.8	5461.3
27.5°	5587.8	5570.6	5662.5	5760.3	5720.0	5783.3	5743.0	5777.5	5783.3	5697.0	5593.6
30°	5771.8	5720.0	5777.5	5967.2	5984.5	6053.5	5984.5	5892.5	5921.2	5846.5	5794.8
32.5°	6036.2	6019.0	6128.2	6254.7	6277.7	6243.2	6208.7	6260.4	6139.7	6082.2	5990.2
35°	6208.7	6283.4	6415.6	6513.4	6588.1	6553.6	6570.8	6519.1	6547.8	6427.1	6386.9
37.5°	6720.3	6691.6	6720.3	6887.0	6904.3	6887.0	6904.3	6961.8	6921.5	6818.0	6714.6
40°	7203.2	7157.2	7226.2	7415.9	7404.4	7461.9	7346.9	7410.2	7410.2	7214.7	7174.5
42.5°	7565.4	7720.6	7801.1	7956.3	8013.8	7962.0	7939.0	7950.5	8077.0	7847.1	7760.8
45°	8312.7	8307.0	8548.4	8634.6	8473.7	8462.2	8416.2	8554.2	8640.4	8508.2	8473.7
47.5°	9123.3	9163.5	9301.5	9336.0	9433.7	9255.5	9255.5	9272.8	9577.4	9267.0	9106.0
50°	9853.4	9905.1	10181.1	10451.3	10267.3	10077.6	10152.3	10244.3	10411.0	10117.8	9979.9
52.5°	10738.7	11020.4	11204.3	11348.1	11480.3	11348.1	11175.6	11279.1	11606.8	11215.8	11043.4
55°	12014.9	12239.1	12411.6	12676.0	12785.3	12607.0	12589.8	12578.3	12762.3	12348.4	12112.7
57.5°	13440.6	13348.6	13624.6	14032.7	14429.4	14256.9	14205.2	14216.7	14262.7	13676.3	13498.1
60°	15211.2	15314.7	15642.4	15998.8	16418.5	16659.9	16320.7	16125.3	16165.5	15366.5	15090.5
62.5°	16223.0	16453.0	17194.6	18419.0	19264.1	20017.2	20068.9	18798.5	17947.7	16395.5	15222.7
65°	15734.4	15699.9	17096.8	19361.8	22563.9	24754.2	24426.5	21345.2	18373.1	15906.8	14331.7
67.5°	13383.1	13291.1	14981.3	18574.3	23863.1	28646.1	28272.4	22063.8	16935.9	14073.0	12290.9
70°	8623.2	8600.2	10434.0	14159.2	21304.9	26300.6	26438.6	20040.2	13785.5	10307.5	8542.7
72.5°	3133.1	3322.8	4386.3	7611.4	14469.6	20120.7	20206.9	14837.6	7927.5	4765.7	3512.5
75°	1155.5	1190.0	1385.5	2472.0	6593.8	12354.1	12676.0	7197.5	2816.9	1552.2	1264.7
77.5°	666.9	672.6	741.6	919.8	1954.6	4823.2	5018.7	2184.5	1092.3	827.8	764.6
80°	454.2	448.4	523.1	597.9	781.8	1368.2	1454.4	914.1	689.9	574.9	482.9
82.5°	264.4	281.7	385.2	425.4	477.1	603.6	615.1	569.1	517.4	425.4	316.2
85°	161.0	132.2	212.7	235.7	275.9	270.2	270.2	310.4	333.4	298.9	178.2
87.5°	40.2	40.2	51.7	57.5	74.7	57.5	63.2	120.7	161.0	149.5	92.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5501.6	5501.6	5501.6	5501.6	5501.6	5501.6	5501.6	5501.6	5501.6	5501.6	5501.6
2.5°	5513.1	5495.8	5507.3	5570.6	5530.3	5409.6	5438.3	5501.6	5449.8	5421.1	5415.3
5°	5490.1	5524.6	5484.3	5495.8	5536.1	5438.3	5455.6	5536.1	5501.6	5513.1	5449.8
7.5°	5495.8	5513.1	5478.6	5426.8	5426.8	5507.3	5461.3	5472.8	5421.1	5507.3	5392.3
10°	5461.3	5415.3	5375.1	5403.8	5392.3	5369.3	5352.1	5386.6	5334.9	5409.6	5329.1
12.5°	5357.9	5369.3	5357.9	5346.4	5369.3	5426.8	5334.9	5346.4	5265.9	5277.4	5317.6
15°	5317.6	5352.1	5340.6	5403.8	5432.6	5346.4	5415.3	5346.4	5283.1	5248.6	5311.9
17.5°	5334.9	5386.6	5369.3	5415.3	5363.6	5426.8	5438.3	5409.6	5334.9	5306.1	5334.9
20°	5352.1	5334.9	5357.9	5438.3	5513.1	5449.8	5449.8	5432.6	5363.6	5323.4	5323.4
22.5°	5392.3	5363.6	5398.1	5461.3	5484.3	5582.1	5495.8	5455.6	5340.6	5237.1	5334.9
25°	5472.8	5490.1	5513.1	5490.1	5616.5	5605.0	5593.6	5564.8	5386.6	5392.3	5375.1
27.5°	5628.0	5530.3	5559.1	5697.0	5714.3	5760.3	5702.8	5754.5	5564.8	5570.6	5455.6
30°	5817.8	5714.3	5806.3	5927.0	5921.2	6007.5	5978.7	5990.2	5858.0	5783.3	5628.0
32.5°	6024.7	6013.2	6070.7	6145.4	6174.2	6220.2	6214.4	6214.4	6133.9	5938.5	5967.2
35°	6254.7	6335.1	6404.1	6484.6	6496.1	6553.6	6473.1	6484.6	6404.1	6260.4	6306.4
37.5°	6708.8	6703.1	6777.8	6875.5	6887.0	6841.0	6904.3	6875.5	6766.3	6668.6	6593.8
40°	7237.7	7122.7	7191.7	7421.7	7438.9	7358.4	7352.7	7346.9	7266.4	7053.7	7007.7
42.5°	7697.6	7847.1	7835.6	7910.3	7858.6	7818.3	7962.0	7881.6	7818.3	7594.1	7553.9
45°	8289.7	8335.7	8485.2	8726.6	8479.4	8479.4	8577.2	8513.9	8479.4	8312.7	8157.5
47.5°	9025.6	9065.8	9364.7	9382.0	9221.0	9111.8	9416.5	9428.0	9284.3	9157.8	8968.1
50°	9887.9	9905.1	10175.3	10451.3	10273.0	10066.1	10376.5	10497.2	10175.3	10002.9	9767.2
52.5°	10836.4	10784.7	11008.9	11526.3	11353.8	11290.6	11624.0	11652.8	11215.8	10945.7	11008.9
55°	11928.7	11859.7	12469.1	12819.8	12710.5	12595.5	12745.0	12814.0	12463.3	12020.7	12175.9
57.5°	13342.9	13377.4	13682.1	14027.0	14205.2	14233.9	14302.9	14233.9	13877.5	13429.1	13285.4
60°	14757.1	14860.6	15452.7	16102.3	16159.8	16665.7	16573.7	16228.8	15722.9	15084.8	15113.5
62.5°	15280.2	15194.0	16148.3	17734.9	19085.9	20011.5	19603.3	18378.8	17206.1	16044.8	16131.0
65°	14228.2	14440.9	15740.1	18223.6	21155.5	24817.4	22644.4	19258.4	16889.9	15389.4	15222.7
67.5°	12262.1	12423.1	14073.0	16694.4	21897.1	27772.3	23794.1	18016.6	14895.1	12952.0	13055.5
70°	8542.7	8623.2	10238.6	13676.3	19856.2	26208.6	21465.9	13837.3	10284.5	8197.7	8312.7
72.5°	3437.8	3633.2	4696.7	8238.0	14659.4	19913.7	14452.4	7260.7	4265.6	3173.3	2880.1
75°	1270.5	1276.2	1500.4	2834.1	6961.8	12515.1	6519.1	2334.0	1362.5	1115.3	1063.5
77.5°	735.8	730.1	781.8	1023.3	2017.8	4886.5	1851.1	914.1	741.6	666.9	638.1
80°	459.9	454.2	534.6	678.4	885.3	1339.5	781.8	569.1	500.1	431.2	431.2
82.5°	293.2	298.9	419.7	500.1	540.4	592.1	454.2	402.4	373.7	247.2	241.4
85°	189.7	172.5	293.2	333.4	298.9	264.4	252.9	212.7	195.5	120.7	132.2
87.5°	86.2	92.0	149.5	166.7	109.2	63.2	63.2	46.0	46.0	28.7	28.7
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)