

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: P479319

Luminaire Tested: **IFLD-L-SA8C-735-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479319
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

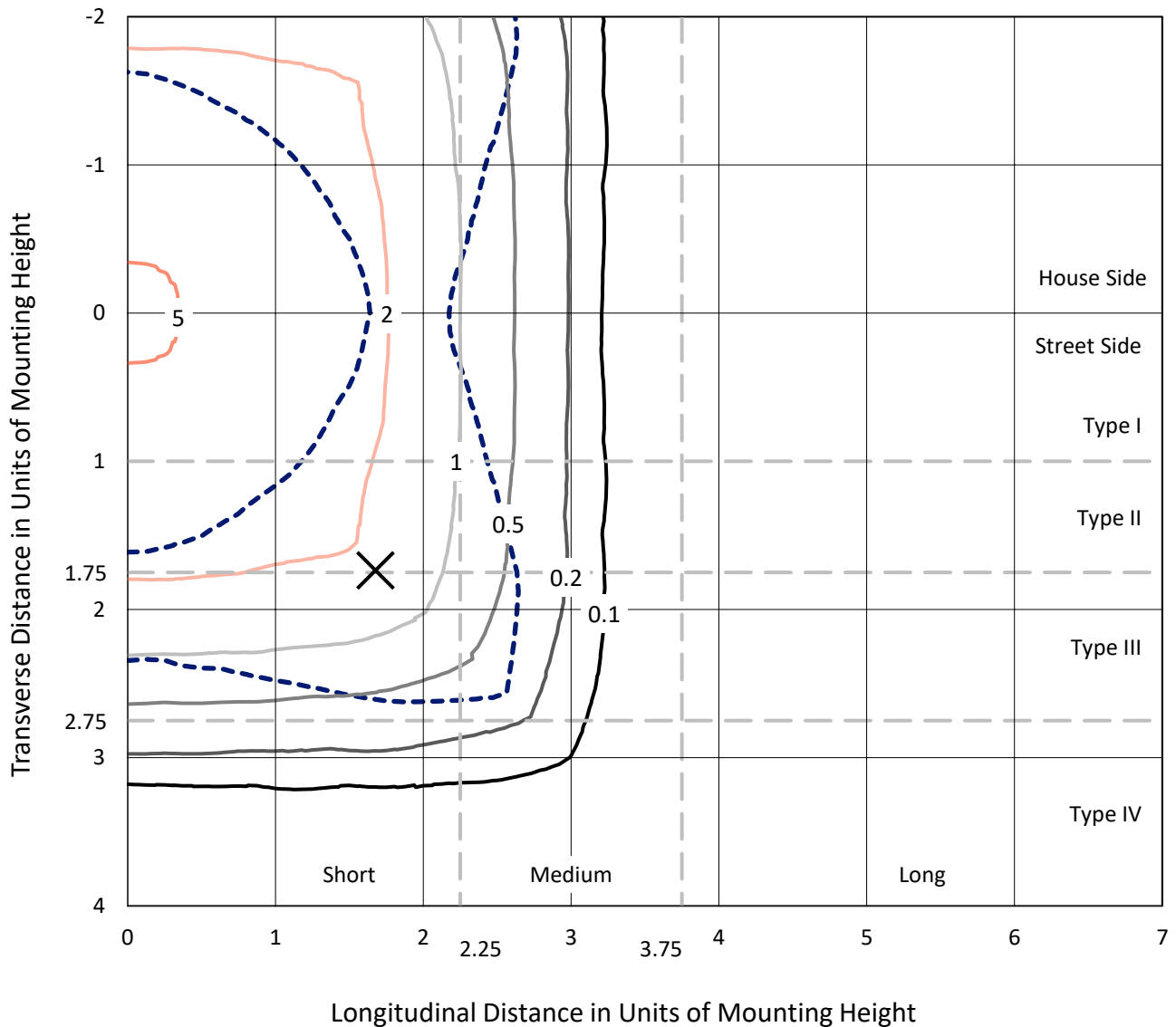
Lumens per Lamp: N/A
Luminaire Lumens: 50440 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 420.3
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

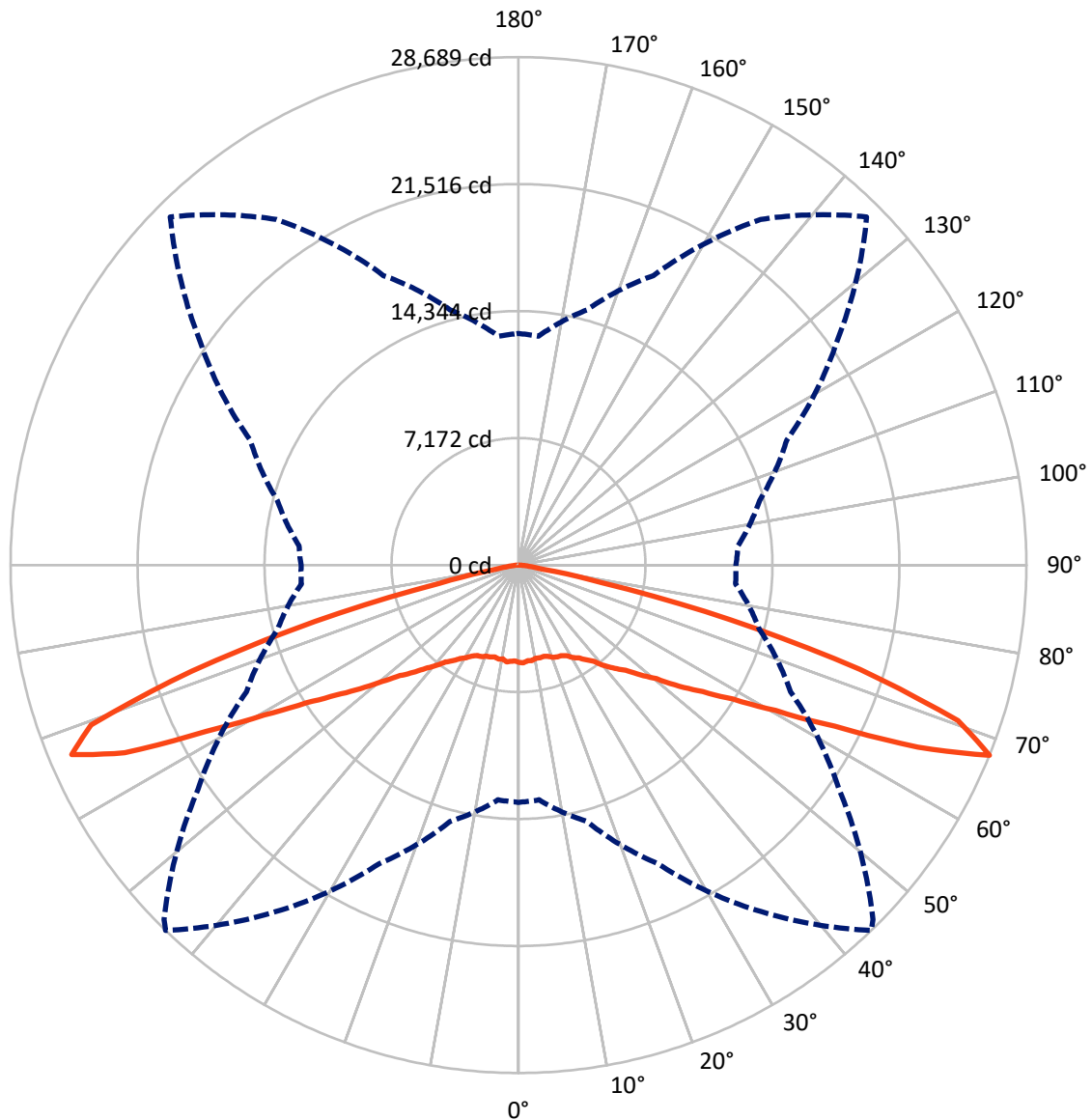
× Max cd
 - - - 1/2 Max cd



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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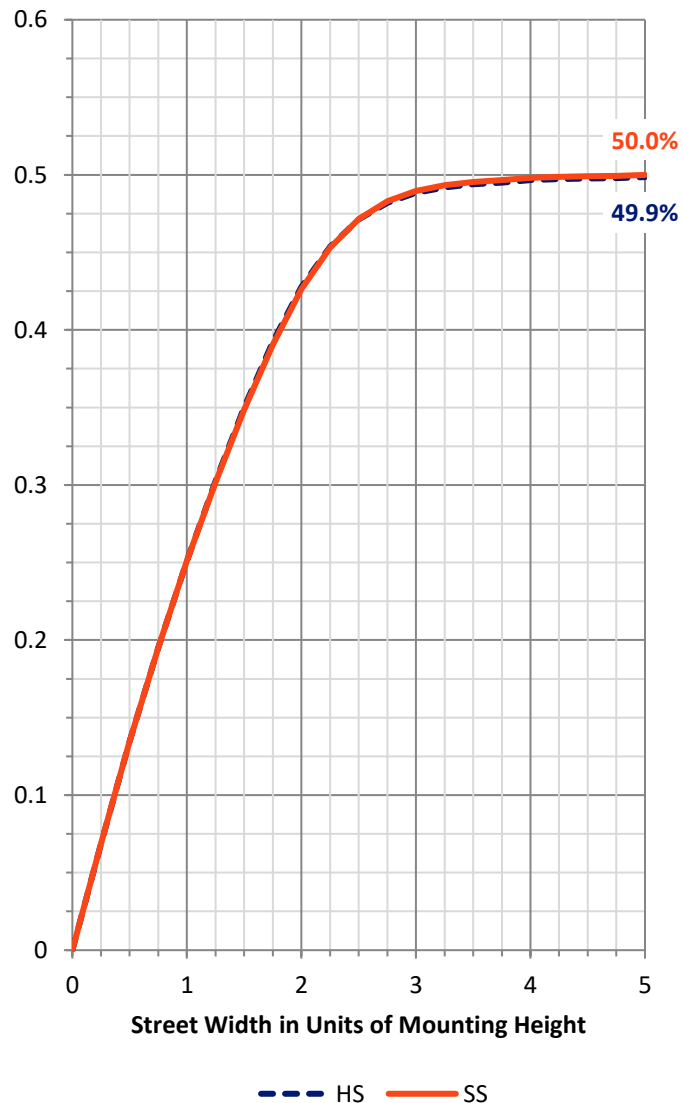
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25155.4	0.0	25155.4
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	25284.6	0.0	25284.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	50440.0	0.0	50440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.4	1.0
10°-20°	1523.2	3.0
20°-30°	2590.3	5.1
30°-40°	4107.0	8.1
40°-50°	6696.9	13.3
50°-60°	11437.3	22.7
60°-70°	17396.0	34.5
70°-80°	5863.5	11.6
80°-90°	304.4	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°	50440.0	100.0
0°-180°	50440.0	100.0

Coefficient of Utilization



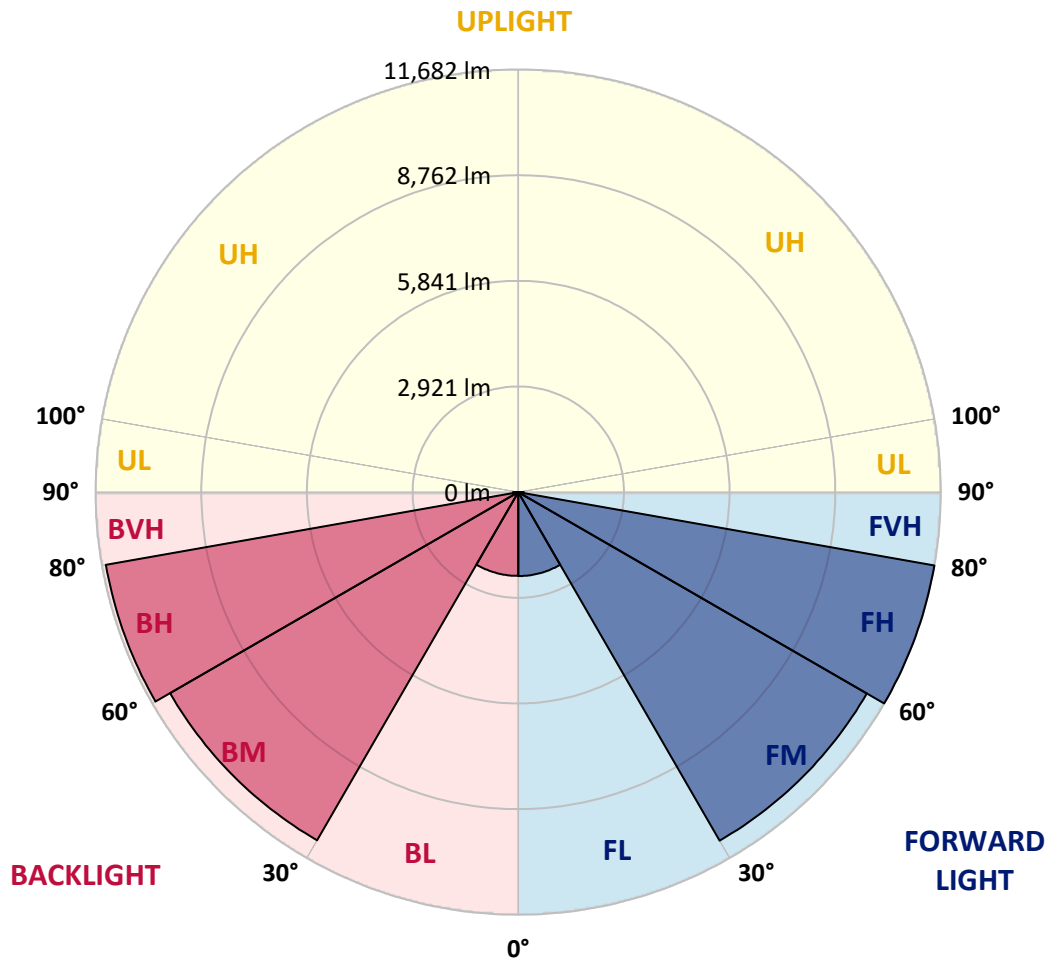
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2319.8	4.6			
FM (30°-60°)	11126.6	22.1			
FH (60°-80°)	11682.4	23.2			G4/12000
FVH (80°-90°)	155.7	0.3			G2/225
BL (0°-30°)	2315.1	4.6	B3/2500		
BM (30°-60°)	11114.6	22.0	B5		
BH (60°-80°)	11577.1	23.0	B5		G4/12000
BVH (80°-90°)	148.7	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°	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7
2.5°	5383.0	5446.4	5492.4	5486.7	5503.9	5521.2	5498.2	5532.7	5509.7	5550.0	5573.0
5°	5486.7	5469.4	5475.2	5440.6	5521.2	5429.1	5429.1	5475.2	5532.7	5463.6	5503.9
7.5°	5423.3	5411.8	5383.0	5434.9	5452.1	5452.1	5498.2	5411.8	5509.7	5532.7	5538.5
10°	5354.3	5290.9	5377.3	5429.1	5440.6	5348.5	5388.8	5411.8	5383.0	5411.8	5429.1
12.5°	5296.7	5331.2	5331.2	5331.2	5314.0	5377.3	5417.6	5411.8	5354.3	5406.1	5314.0
15°	5290.9	5273.7	5325.5	5371.5	5342.7	5354.3	5371.5	5423.3	5314.0	5337.0	5337.0
17.5°	5285.2	5308.2	5325.5	5319.7	5417.6	5417.6	5400.3	5365.8	5452.1	5406.1	5342.7
20°	5308.2	5290.9	5337.0	5354.3	5423.3	5561.5	5509.7	5480.9	5434.9	5377.3	5377.3
22.5°	5337.0	5325.5	5388.8	5463.6	5596.1	5630.6	5624.8	5590.3	5509.7	5440.6	5429.1
25°	5440.6	5337.0	5406.1	5550.0	5596.1	5665.1	5711.2	5665.1	5555.8	5573.0	5469.4
27.5°	5596.1	5578.8	5670.9	5768.8	5728.5	5791.8	5751.5	5786.1	5791.8	5705.5	5601.8
30°	5780.3	5728.5	5786.1	5976.0	5993.3	6062.4	5993.3	5901.2	5930.0	5855.1	5803.3
32.5°	6045.1	6027.9	6137.2	6263.9	6286.9	6252.4	6217.8	6269.7	6148.8	6091.2	5999.1
35°	6217.8	6292.7	6425.1	6523.0	6597.8	6563.3	6580.6	6528.7	6557.5	6436.6	6396.3
37.5°	6730.2	6701.5	6730.2	6897.2	6914.5	6897.2	6914.5	6972.0	6931.7	6828.1	6724.5
40°	7213.9	7167.8	7236.9	7426.9	7415.4	7472.9	7357.8	7421.1	7421.1	7225.4	7185.1
42.5°	7576.6	7732.0	7812.6	7968.1	8025.6	7973.8	7950.8	7962.3	8089.0	7858.7	7772.3
45°	8325.0	8319.2	8561.1	8647.4	8486.2	8474.7	8428.6	8566.8	8653.2	8520.8	8486.2
47.5°	9136.8	9177.1	9315.3	9349.8	9447.7	9269.2	9269.2	9286.5	9591.6	9280.7	9119.5
50°	9868.0	9919.8	10196.1	10466.7	10282.5	10092.5	10167.3	10259.4	10426.4	10132.8	9994.6
52.5°	10754.6	11036.7	11220.9	11364.8	11497.3	11364.8	11192.1	11295.8	11623.9	11232.4	11059.7
55°	12032.7	12257.2	12429.9	12694.8	12804.2	12625.7	12608.4	12596.9	12781.1	12366.6	12130.6
57.5°	13460.5	13368.4	13644.7	14053.5	14450.7	14278.0	14226.2	14237.7	14283.8	13696.5	13518.1
60°	15233.7	15337.4	15665.5	16022.5	16442.8	16684.6	16344.9	16149.1	16189.4	15389.2	15112.8
62.5°	16247.0	16477.3	17220.0	18446.3	19292.6	20046.8	20098.6	18826.3	17974.2	16419.7	15245.2
65°	15757.6	15723.1	17122.1	19390.5	22597.3	24790.8	24462.6	21376.7	18400.2	15930.4	14352.9
67.5°	13402.9	13310.8	15003.4	18601.7	23898.4	28688.5	28314.2	22096.4	16960.9	14093.8	12309.0
70°	8635.9	8612.9	10449.4	14180.1	21336.4	26339.5	26477.7	20069.8	13805.9	10322.8	8555.3
72.5°	3137.7	3327.7	4392.8	7622.6	14491.0	20150.4	20236.8	14859.5	7939.3	4772.8	3517.7
75°	1157.2	1191.8	1387.5	2475.6	6603.6	12372.4	12694.8	7208.1	2821.1	1554.5	1266.6
77.5°	667.8	673.6	742.7	921.2	1957.5	4830.3	5026.1	2187.8	1093.9	829.0	765.7
80°	454.8	449.1	523.9	598.8	783.0	1370.2	1456.6	915.4	690.9	575.7	483.6
82.5°	264.8	282.1	385.7	426.0	477.9	604.5	616.0	570.0	518.2	426.0	316.6
85°	161.2	132.4	213.0	236.0	276.3	270.6	270.6	310.9	333.9	299.4	178.5
87.5°	40.3	40.3	51.8	57.6	74.8	57.6	63.3	120.9	161.2	149.7	92.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7
2.5°	5521.2	5503.9	5515.5	5578.8	5538.5	5417.6	5446.4	5509.7	5457.9	5429.1	5423.3
5°	5498.2	5532.7	5492.4	5503.9	5544.2	5446.4	5463.6	5544.2	5509.7	5521.2	5457.9
7.5°	5503.9	5521.2	5486.7	5434.9	5434.9	5515.5	5469.4	5480.9	5429.1	5515.5	5400.3
10°	5469.4	5423.3	5383.0	5411.8	5400.3	5377.3	5360.0	5394.6	5342.7	5417.6	5337.0
12.5°	5365.8	5377.3	5365.8	5354.3	5377.3	5434.9	5342.7	5354.3	5273.7	5285.2	5325.5
15°	5325.5	5360.0	5348.5	5411.8	5440.6	5354.3	5423.3	5354.3	5290.9	5256.4	5319.7
17.5°	5342.7	5394.6	5377.3	5423.3	5371.5	5434.9	5446.4	5417.6	5342.7	5314.0	5342.7
20°	5360.0	5342.7	5365.8	5446.4	5521.2	5457.9	5457.9	5440.6	5371.5	5331.2	5331.2
22.5°	5400.3	5371.5	5406.1	5469.4	5492.4	5590.3	5503.9	5463.6	5348.5	5244.9	5342.7
25°	5480.9	5498.2	5521.2	5498.2	5624.8	5613.3	5601.8	5573.0	5394.6	5400.3	5383.0
27.5°	5636.4	5538.5	5567.3	5705.5	5722.7	5768.8	5711.2	5763.0	5573.0	5578.8	5463.6
30°	5826.4	5722.7	5814.8	5935.7	5930.0	6016.3	5987.6	5999.1	5866.7	5791.8	5636.4
32.5°	6033.6	6022.1	6079.7	6154.5	6183.3	6229.4	6223.6	6223.6	6143.0	5947.3	5976.0
35°	6263.9	6344.5	6413.6	6494.2	6505.7	6563.3	6482.7	6494.2	6413.6	6269.7	6315.7
37.5°	6718.7	6713.0	6787.8	6885.7	6897.2	6851.1	6914.5	6885.7	6776.3	6678.4	6603.6
40°	7248.4	7133.3	7202.3	7432.6	7449.9	7369.3	7363.5	7357.8	7277.2	7064.2	7018.1
42.5°	7709.0	7858.7	7847.2	7922.0	7870.2	7829.9	7973.8	7893.2	7829.9	7605.3	7565.0
45°	8302.0	8348.0	8497.7	8739.5	8492.0	8492.0	8589.8	8526.5	8492.0	8325.0	8169.6
47.5°	9038.9	9079.2	9378.6	9395.9	9234.7	9125.3	9430.4	9441.9	9298.0	9171.3	8981.3
50°	9902.5	9919.8	10190.4	10466.7	10288.2	10081.0	10391.9	10512.8	10190.4	10017.6	9781.6
52.5°	10852.4	10800.6	11025.2	11543.3	11370.6	11307.3	11641.2	11670.0	11232.4	10961.8	11025.2
55°	11946.3	11877.2	12487.5	12838.7	12729.3	12614.2	12763.9	12832.9	12481.8	12038.4	12193.9
57.5°	13362.6	13397.2	13702.3	14047.7	14226.2	14255.0	14324.1	14255.0	13898.0	13449.0	13305.0
60°	14778.9	14882.5	15475.5	16126.1	16183.7	16690.3	16598.2	16252.8	15746.1	15107.1	15135.9
62.5°	15302.8	15216.5	16172.2	17761.2	19114.1	20041.0	19632.3	18406.0	17231.5	16068.5	16154.9
65°	14249.2	14462.3	15763.4	18250.5	21186.7	24854.1	22677.9	19286.8	16914.8	15412.2	15245.2
67.5°	12280.2	12441.5	14093.8	16719.1	21929.4	27813.4	23829.3	18043.3	14917.1	12971.1	13074.8
70°	8555.3	8635.9	10253.7	13696.5	19885.6	26247.4	21497.6	13857.7	10299.7	8209.9	8325.0
72.5°	3442.8	3638.6	4703.7	8250.2	14681.0	19943.2	14473.8	7271.4	4271.9	3178.0	2884.4
75°	1272.4	1278.1	1502.6	2838.3	6972.0	12533.6	6528.7	2337.5	1364.5	1116.9	1065.1
77.5°	736.9	731.2	783.0	1024.8	2020.8	4893.7	1853.8	915.4	742.7	667.8	639.1
80°	460.6	454.8	535.4	679.4	886.6	1341.4	783.0	570.0	500.9	431.8	431.8
82.5°	293.6	299.4	420.3	500.9	541.2	593.0	454.8	403.0	374.2	247.6	241.8
85°	190.0	172.7	293.6	333.9	299.4	264.8	253.3	213.0	195.7	120.9	132.4
87.5°	86.4	92.1	149.7	167.0	109.4	63.3	63.3	46.1	46.1	28.8	28.8
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)