

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: P479242

Luminaire Tested: **IFLD-L-SA8D-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479242
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

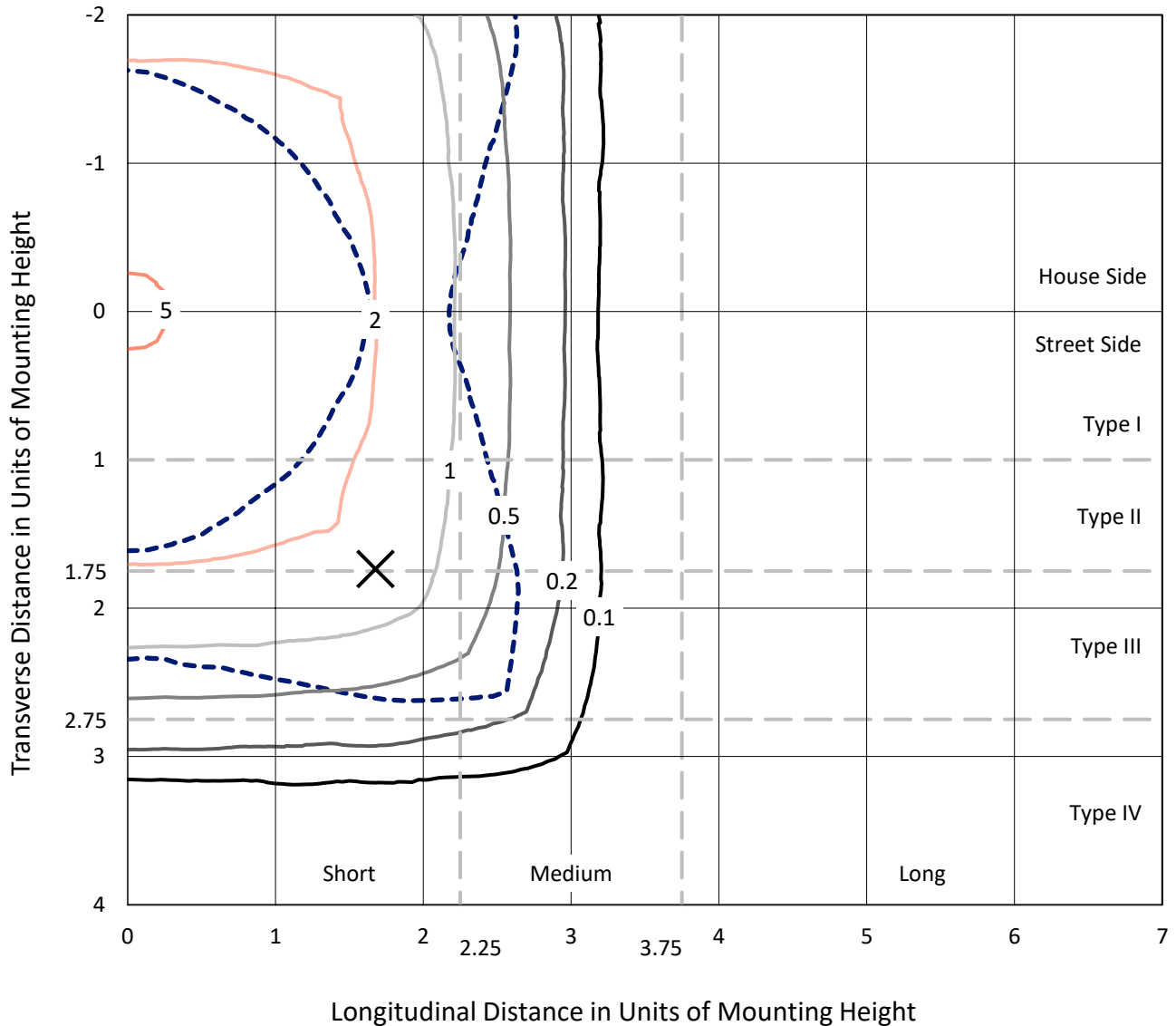
Lumens per Lamp: N/A
Luminaire Lumens: 47060.4 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 488.3
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

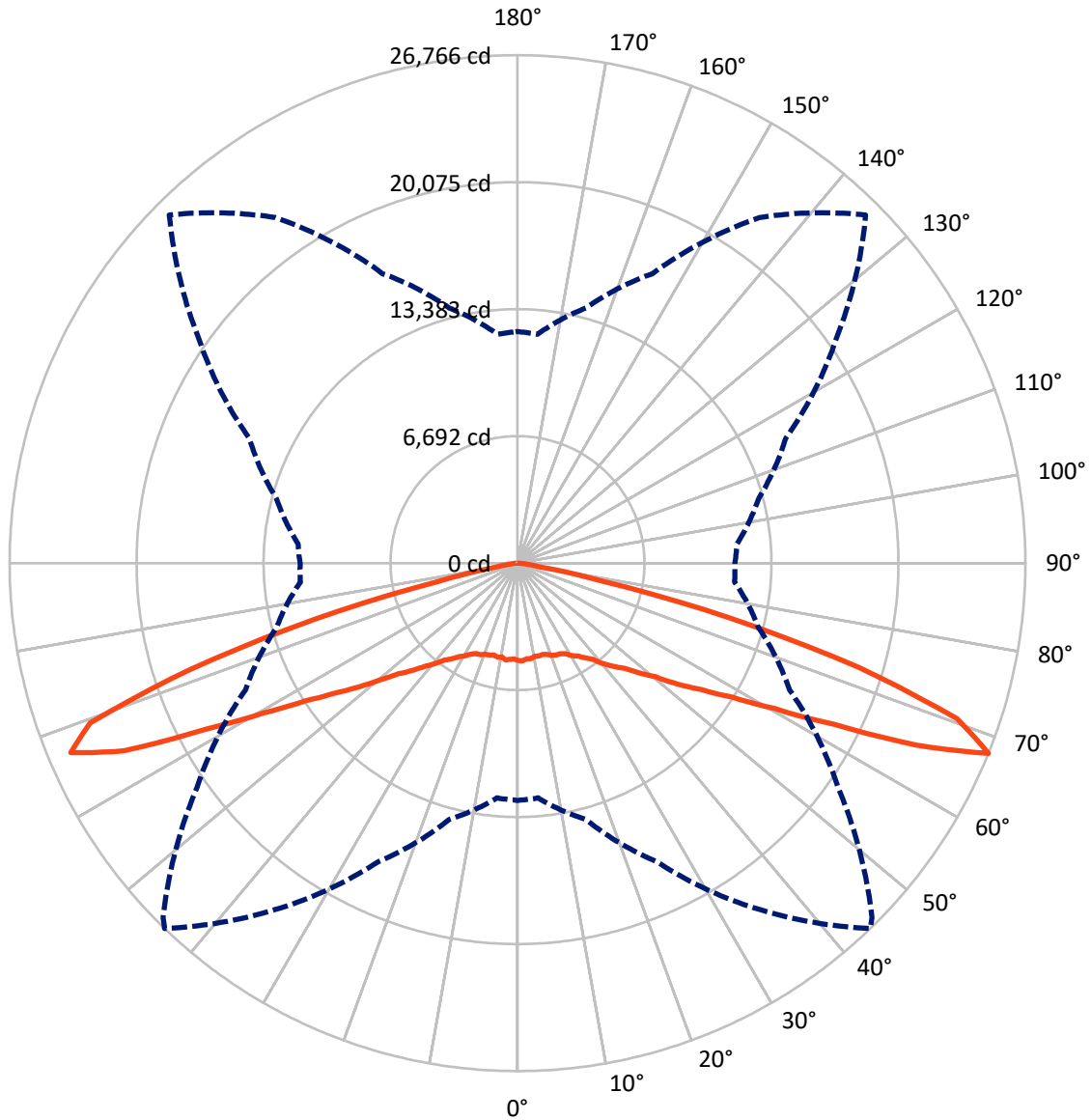
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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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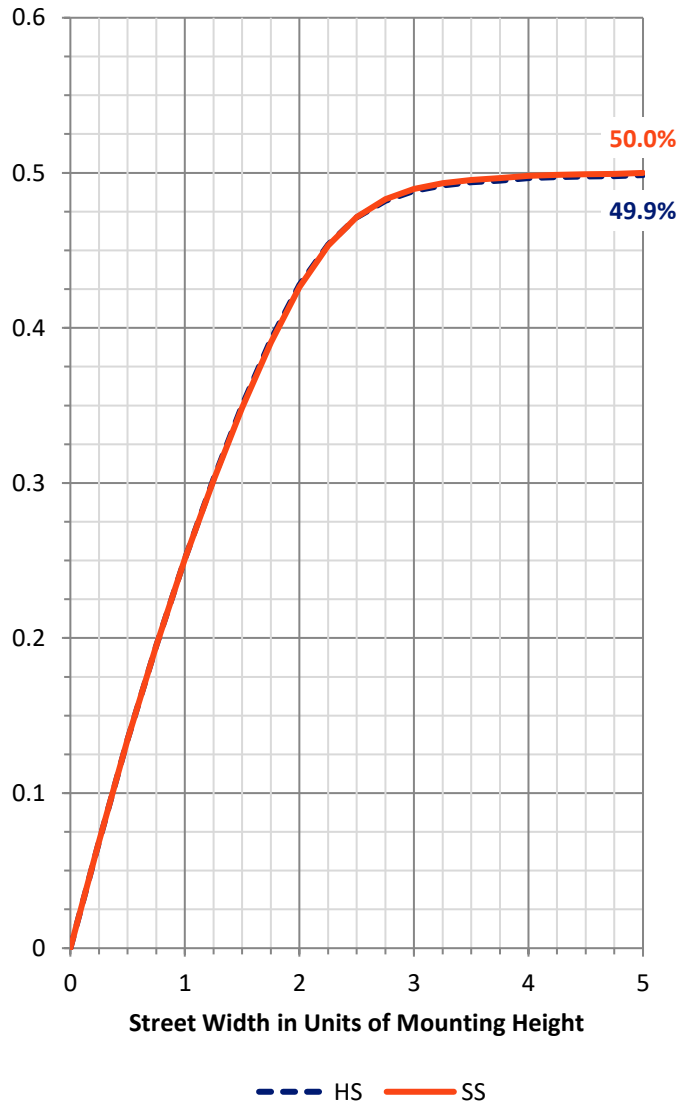
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23469.9	0.0	23469.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	23590.5	0.0	23590.5
	% Fixture	50.1	0.0	50.1
Total	Lumens	47060.4	0.0	47060.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.4	1.0
10°-20°	1421.2	3.0
20°-30°	2416.7	5.1
30°-40°	3831.8	8.1
40°-50°	6248.1	13.3
50°-60°	10671.0	22.7
60°-70°	16230.4	34.5
70°-80°	5470.7	11.6
80°-90°	284.0	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°	47060.4	100.0
0°-180°	47060.4	100.0

Coefficient of Utilization



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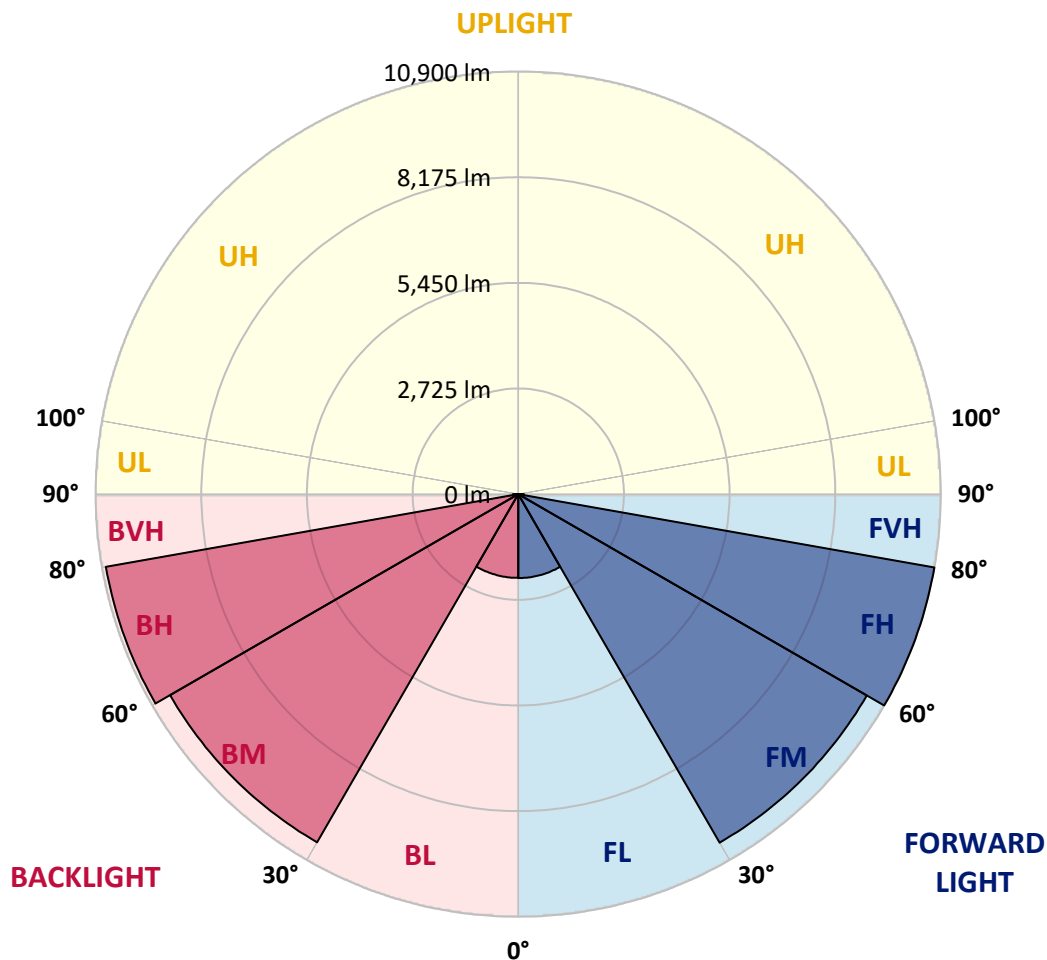
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2164.4	4.6			
FM (30°-60°)	10381.1	22.1			
FH (60°-80°)	10899.7	23.2			G4/12000
FVH (80°-90°)	145.3	0.3			G2/225
BL (0°-30°)	2159.9	4.6	B3/2500		
BM (30°-60°)	10369.9	22.0	B5		
BH (60°-80°)	10801.4	23.0	B5		G4/12000
BVH (80°-90°)	138.7	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°	5140.5	5140.5	5140.5	5140.5	5140.5	5140.5	5140.5	5140.5	5140.5	5140.5	5140.5
2.5°	5022.4	5081.5	5124.4	5119.1	5135.2	5151.3	5129.8	5162.0	5140.5	5178.1	5199.6
5°	5119.1	5102.9	5108.3	5076.1	5151.3	5065.3	5065.3	5108.3	5162.0	5097.6	5135.2
7.5°	5060.0	5049.2	5022.4	5070.7	5086.8	5086.8	5129.8	5049.2	5140.5	5162.0	5167.4
10°	4995.5	4936.4	5017.0	5065.3	5076.1	4990.1	5027.7	5049.2	5022.4	5049.2	5065.3
12.5°	4941.8	4974.0	4974.0	4974.0	4957.9	5017.0	5054.6	5049.2	4995.5	5043.9	4957.9
15°	4936.4	4920.3	4968.6	5011.6	4984.8	4995.5	5011.6	5060.0	4957.9	4979.4	4979.4
17.5°	4931.0	4952.5	4968.6	4963.3	5054.6	5054.6	5038.5	5006.3	5086.8	5043.9	4984.8
20°	4952.5	4936.4	4979.4	4995.5	5060.0	5188.9	5140.5	5113.7	5070.7	5017.0	5017.0
22.5°	4979.4	4968.6	5027.7	5097.6	5221.1	5253.3	5248.0	5215.7	5140.5	5076.1	5065.3
25°	5076.1	4979.4	5043.9	5178.1	5221.1	5285.6	5328.5	5285.6	5183.5	5199.6	5102.9
27.5°	5221.1	5205.0	5290.9	5382.3	5344.7	5403.7	5366.1	5398.4	5403.7	5323.2	5226.5
30°	5393.0	5344.7	5398.4	5575.6	5591.7	5656.2	5591.7	5505.8	5532.7	5462.8	5414.5
32.5°	5640.1	5624.0	5726.0	5844.2	5865.7	5833.5	5801.2	5849.6	5736.8	5683.1	5597.1
35°	5801.2	5871.1	5994.6	6085.9	6155.8	6123.5	6139.6	6091.3	6118.2	6005.4	5967.8
37.5°	6279.3	6252.4	6279.3	6435.1	6451.2	6435.1	6451.2	6504.9	6467.3	6370.6	6273.9
40°	6730.5	6687.5	6752.0	6929.3	6918.5	6972.2	6864.8	6923.9	6923.9	6741.2	6703.6
42.5°	7068.9	7213.9	7289.1	7434.2	7487.9	7439.5	7418.1	7428.8	7547.0	7332.1	7251.5
45°	7767.2	7761.8	7987.4	8068.0	7917.6	7906.9	7863.9	7992.8	8073.4	7949.8	7917.6
47.5°	8524.6	8562.2	8691.1	8723.3	8814.7	8648.1	8648.1	8664.3	8948.9	8658.9	8508.5
50°	9206.8	9255.1	9513.0	9765.4	9593.5	9416.3	9486.1	9572.0	9727.8	9453.9	9324.9
52.5°	10034.0	10297.2	10469.1	10603.4	10726.9	10603.4	10442.2	10538.9	10845.1	10479.8	10318.7
55°	11226.5	11436.0	11597.1	11844.2	11946.2	11779.7	11763.6	11752.9	11924.8	11538.0	11317.8
57.5°	12558.6	12472.7	12730.5	13111.9	13482.5	13321.4	13273.0	13283.8	13326.7	12778.8	12612.3
60°	14213.0	14309.7	14615.9	14948.9	15341.0	15566.6	15249.7	15067.1	15104.7	14358.1	14100.2
62.5°	15158.4	15373.3	16066.2	17210.3	17999.9	18703.6	18752.0	17564.8	16769.9	15319.6	14223.8
65°	14701.8	14669.6	15974.9	18091.3	21083.2	23129.7	22823.6	19944.4	17167.4	14863.0	13391.2
67.5°	12504.9	12418.9	13998.2	17355.4	22297.2	26766.3	26417.1	20615.9	15824.5	13149.5	11484.3
70°	8057.3	8035.8	9749.3	13230.0	19906.8	24574.7	24703.6	18725.1	12880.9	9631.1	7982.1
72.5°	2927.5	3104.7	4098.5	7111.9	13520.1	18800.3	18880.9	13863.9	7407.3	4453.0	3282.0
75°	1079.7	1111.9	1294.5	2309.8	6161.1	11543.4	11844.2	6725.1	2632.0	1450.3	1181.7
77.5°	623.1	628.5	692.9	859.4	1826.3	4506.7	4689.3	2041.2	1020.6	773.5	714.4
80°	424.3	419.0	488.8	558.6	730.5	1278.4	1359.0	854.1	644.6	537.2	451.2
82.5°	247.1	263.2	359.9	397.5	445.8	564.0	574.8	531.8	483.4	397.5	295.4
85°	150.4	123.5	198.7	220.2	257.8	252.5	252.5	290.1	311.5	279.3	166.5
87.5°	37.6	37.6	48.3	53.7	69.8	53.7	59.1	112.8	150.4	139.7	85.9
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°	5140.5	5140.5	5140.5	5140.5	5140.5	5140.5	5140.5	5140.5	5140.5	5140.5	5140.5
2.5°	5151.3	5135.2	5145.9	5205.0	5167.4	5054.6	5081.5	5140.5	5092.2	5065.3	5060.0
5°	5129.8	5162.0	5124.4	5135.2	5172.8	5081.5	5097.6	5172.8	5140.5	5151.3	5092.2
7.5°	5135.2	5151.3	5119.1	5070.7	5070.7	5145.9	5102.9	5113.7	5065.3	5145.9	5038.5
10°	5102.9	5060.0	5022.4	5049.2	5038.5	5017.0	5000.9	5033.1	4984.8	5054.6	4979.4
12.5°	5006.3	5017.0	5006.3	4995.5	5017.0	5070.7	4984.8	4995.5	4920.3	4931.0	4968.6
15°	4968.6	5000.9	4990.1	5049.2	5076.1	4995.5	5060.0	4995.5	4936.4	4904.2	4963.3
17.5°	4984.8	5033.1	5017.0	5060.0	5011.6	5070.7	5081.5	5054.6	4984.8	4957.9	4984.8
20°	5000.9	4984.8	5006.3	5081.5	5151.3	5092.2	5092.2	5076.1	5011.6	4974.0	4974.0
22.5°	5038.5	5011.6	5043.9	5102.9	5124.4	5215.7	5135.2	5097.6	4990.1	4893.4	4984.8
25°	5113.7	5129.8	5151.3	5129.8	5248.0	5237.2	5226.5	5199.6	5033.1	5038.5	5022.4
27.5°	5258.7	5167.4	5194.3	5323.2	5339.3	5382.3	5328.5	5376.9	5199.6	5205.0	5097.6
30°	5436.0	5339.3	5425.2	5538.0	5532.7	5613.2	5586.4	5597.1	5473.6	5403.7	5258.7
32.5°	5629.3	5618.6	5672.3	5742.1	5769.0	5812.0	5806.6	5806.6	5731.4	5548.8	5575.6
35°	5844.2	5919.4	5983.9	6059.1	6069.8	6123.5	6048.3	6059.1	5983.9	5849.6	5892.6
37.5°	6268.6	6263.2	6333.0	6424.3	6435.1	6392.1	6451.2	6424.3	6322.3	6231.0	6161.1
40°	6762.7	6655.3	6719.8	6934.6	6950.7	6875.5	6870.2	6864.8	6789.6	6590.8	6547.9
42.5°	7192.5	7332.1	7321.4	7391.2	7342.9	7305.3	7439.5	7364.3	7305.3	7095.8	7058.2
45°	7745.7	7788.7	7928.4	8154.0	7923.0	7923.0	8014.3	7955.2	7923.0	7767.2	7622.2
47.5°	8433.3	8470.9	8750.2	8766.3	8615.9	8513.8	8798.5	8809.3	8675.0	8556.8	8379.6
50°	9239.0	9255.1	9507.6	9765.4	9598.9	9405.5	9695.6	9808.4	9507.6	9346.4	9126.2
52.5°	10125.3	10077.0	10286.4	10769.9	10608.7	10549.7	10861.2	10888.1	10479.8	10227.4	10286.4
55°	11145.9	11081.4	11650.8	11978.5	11876.4	11769.0	11908.6	11973.1	11645.4	11231.8	11376.9
57.5°	12467.3	12499.5	12784.2	13106.5	13273.0	13299.9	13364.3	13299.9	12966.8	12547.9	12413.6
60°	13788.7	13885.4	14438.6	15045.6	15099.3	15572.0	15486.1	15163.8	14691.1	14094.9	14121.7
62.5°	14277.5	14196.9	15088.6	16571.1	17833.4	18698.2	18316.9	17172.7	16076.9	14991.9	15072.5
65°	13294.5	13493.2	14707.2	17027.7	19767.2	23188.8	21158.4	17994.6	15781.5	14379.5	14223.8
67.5°	11457.4	11607.8	13149.5	15598.9	20460.1	25949.8	22232.7	16834.3	13917.6	12102.0	12198.7
70°	7982.1	8057.3	9566.7	12778.8	18553.2	24488.7	20057.2	12929.2	9609.6	7659.8	7767.2
72.5°	3212.2	3394.8	4388.5	7697.4	13697.4	18606.9	13504.0	6784.2	3985.7	2965.1	2691.1
75°	1187.1	1192.5	1402.0	2648.2	6504.9	11693.8	6091.3	2180.8	1273.0	1042.1	993.7
77.5°	687.6	682.2	730.5	956.1	1885.4	4565.8	1729.6	854.1	692.9	623.1	596.2
80°	429.7	424.3	499.6	633.8	827.2	1251.6	730.5	531.8	467.3	402.9	402.9
82.5°	273.9	279.3	392.1	467.3	504.9	553.3	424.3	376.0	349.1	231.0	225.6
85°	177.3	161.1	273.9	311.5	279.3	247.1	236.3	198.7	182.6	112.8	123.5
87.5°	80.6	85.9	139.7	155.8	102.1	59.1	59.1	43.0	43.0	26.9	26.9
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)