

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: P479354

Luminaire Tested: **IFLD-L-SA7D-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479354
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

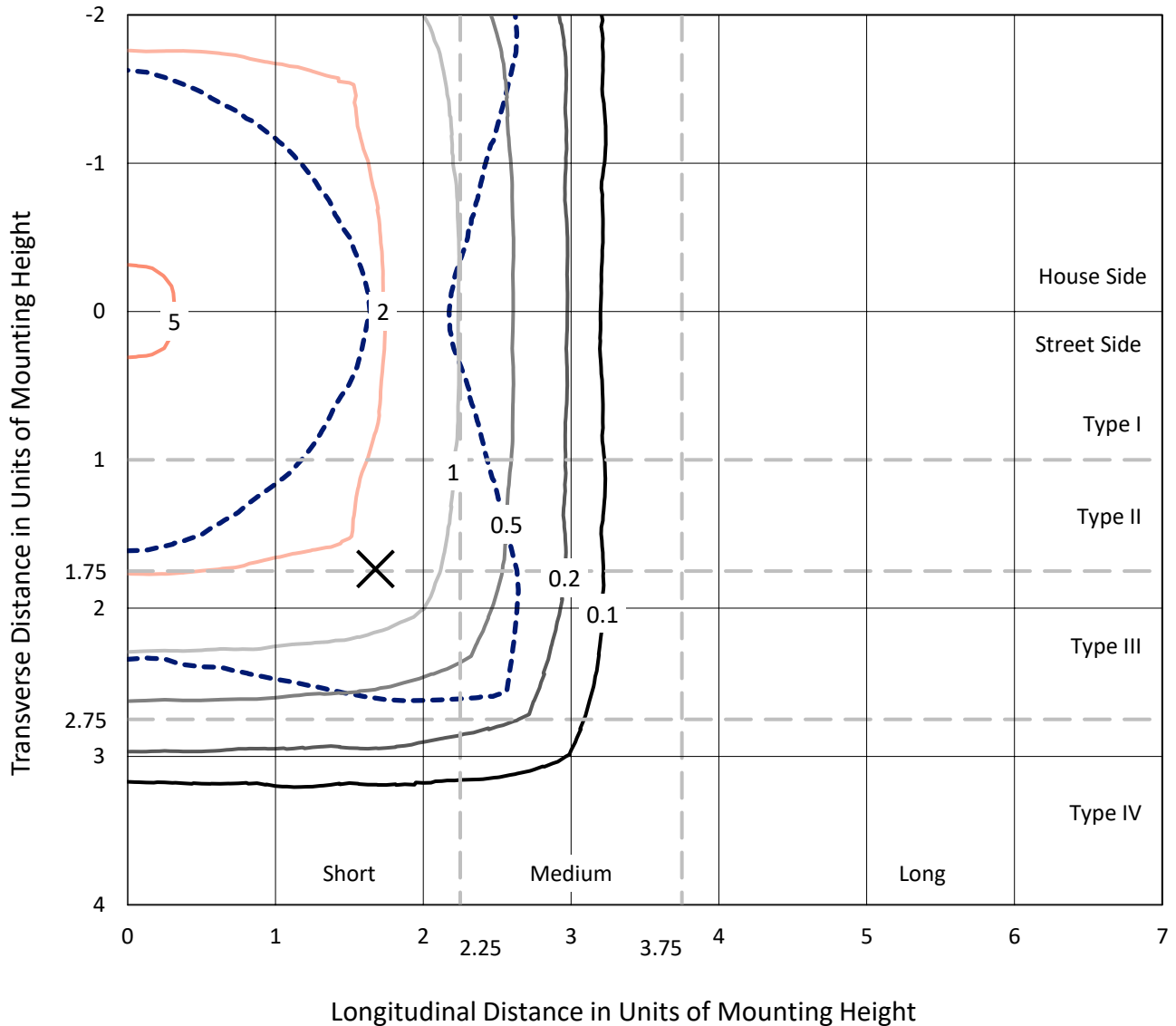
Lumens per Lamp: N/A
Luminaire Lumens: 49238 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

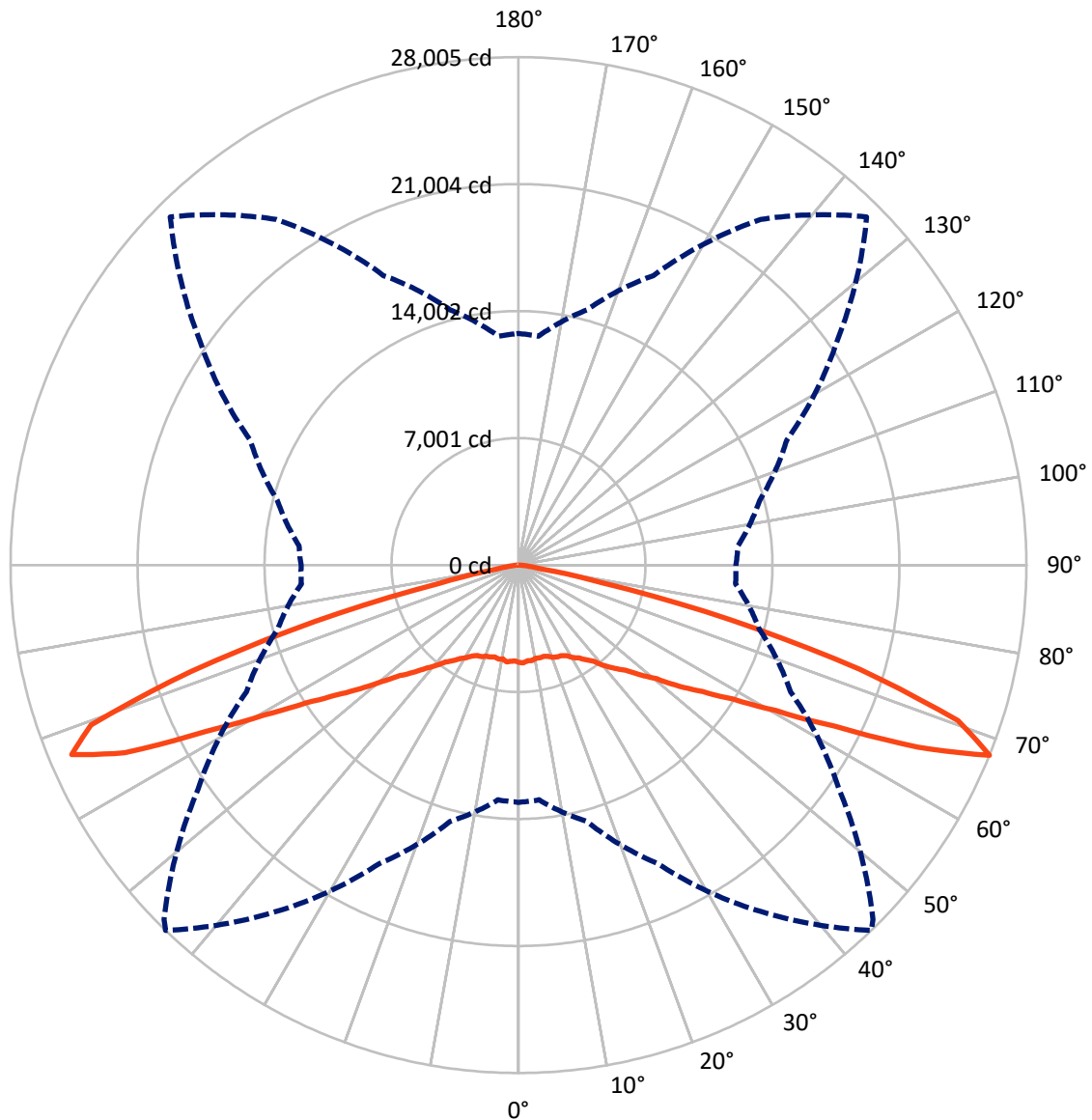
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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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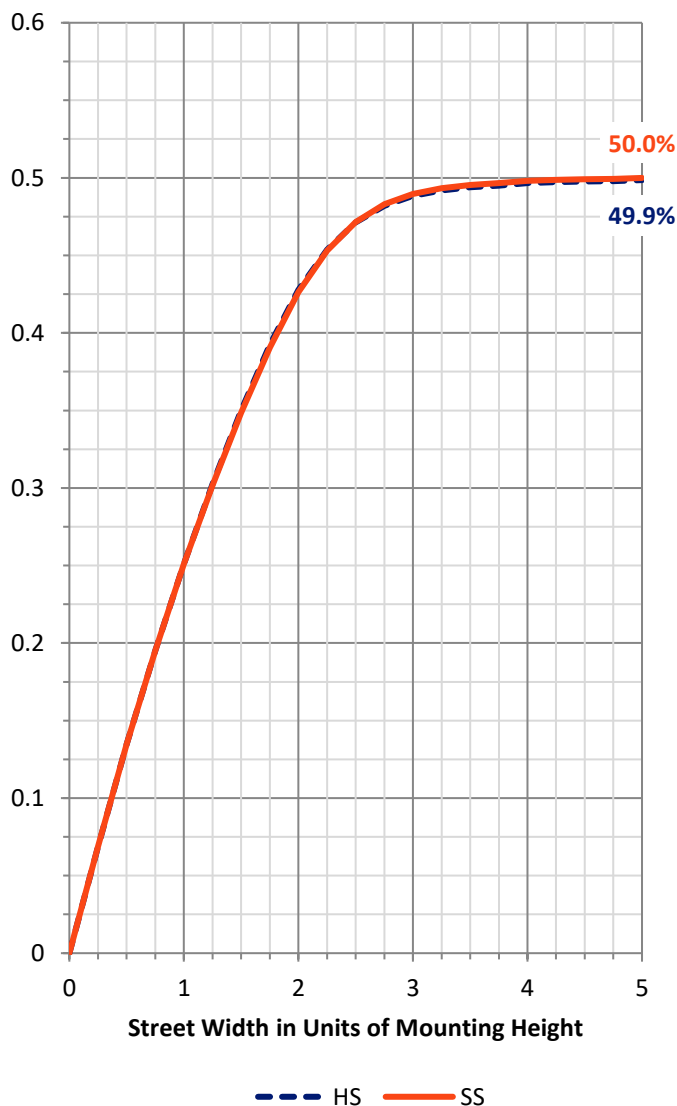
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24556.0	0.0	24556.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	24682.0	0.0	24682.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	49238.0	0.0	49238.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.0	1.0
10°-20°	1486.9	3.0
20°-30°	2528.6	5.1
30°-40°	4009.1	8.1
40°-50°	6537.3	13.3
50°-60°	11164.8	22.7
60°-70°	16981.5	34.5
70°-80°	5723.8	11.6
80°-90°	297.2	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°	49238.0	100.0
0°-180°	49238.0	100.0

Coefficient of Utilization



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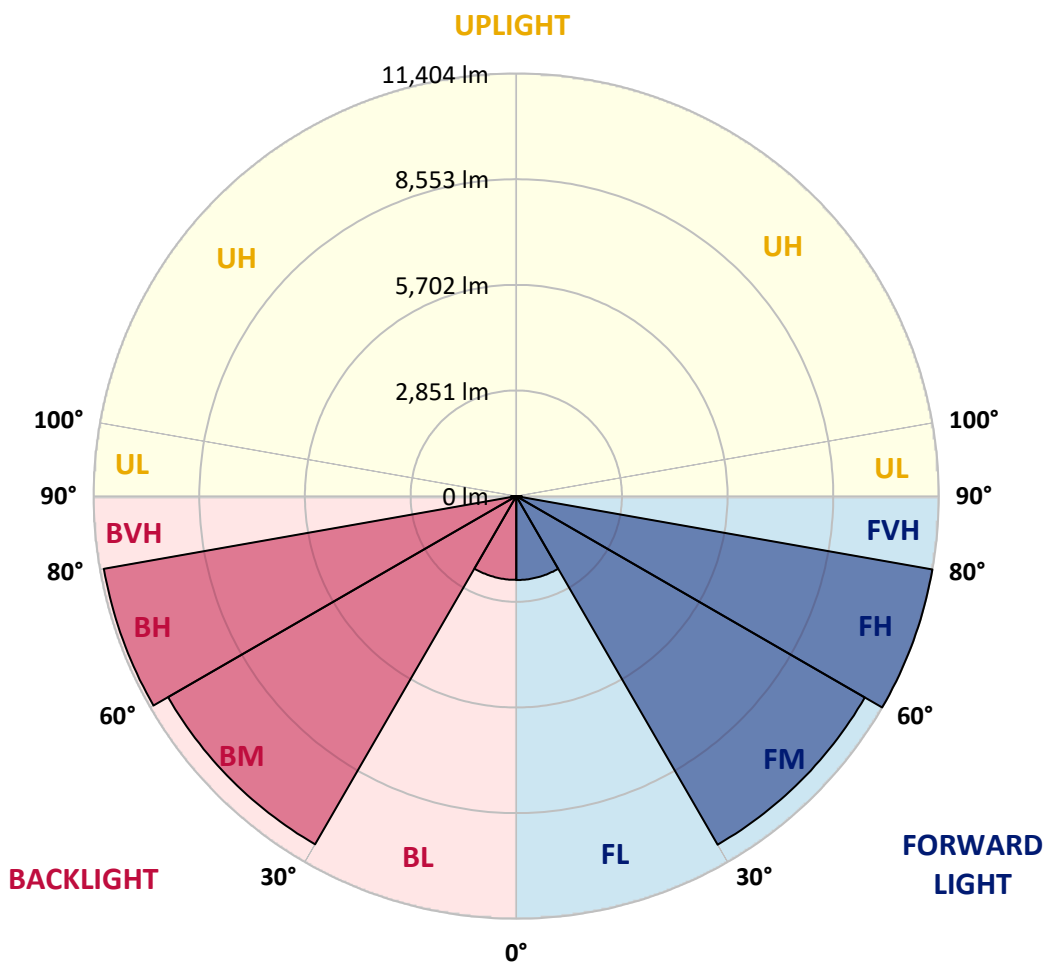
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2264.5	4.6			
FM (30°-60°)	10861.4	22.1			
FH (60°-80°)	11404.0	23.2			G4/12000
FVH (80°-90°)	152.0	0.3			G2/225
BL (0°-30°)	2259.9	4.6	B3/2500		
BM (30°-60°)	10849.7	22.0	B5		
BH (60°-80°)	11301.2	23.0	B5		G4/12000
BVH (80°-90°)	145.2	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°	5378.4	5378.4	5378.4	5378.4	5378.4	5378.4	5378.4	5378.4	5378.4	5378.4	5378.4
2.5°	5254.8	5316.6	5361.5	5355.9	5372.8	5389.6	5367.2	5400.9	5378.4	5417.7	5440.2
5°	5355.9	5339.1	5344.7	5311.0	5389.6	5299.7	5299.7	5344.7	5400.9	5333.4	5372.8
7.5°	5294.1	5282.9	5254.8	5305.3	5322.2	5322.2	5367.2	5282.9	5378.4	5400.9	5406.5
10°	5226.7	5164.8	5249.1	5299.7	5311.0	5221.0	5260.4	5282.9	5254.8	5282.9	5299.7
12.5°	5170.5	5204.2	5204.2	5204.2	5187.3	5249.1	5288.5	5282.9	5226.7	5277.2	5187.3
15°	5164.8	5148.0	5198.6	5243.5	5215.4	5226.7	5243.5	5294.1	5187.3	5209.8	5209.8
17.5°	5159.2	5181.7	5198.6	5192.9	5288.5	5288.5	5271.6	5237.9	5322.2	5277.2	5215.4
20°	5181.7	5164.8	5209.8	5226.7	5294.1	5429.0	5378.4	5350.3	5305.3	5249.1	5249.1
22.5°	5209.8	5198.6	5260.4	5333.4	5462.7	5496.4	5490.8	5457.1	5378.4	5311.0	5299.7
25°	5311.0	5209.8	5277.2	5417.7	5462.7	5530.1	5575.1	5530.1	5423.4	5440.2	5339.1
27.5°	5462.7	5445.8	5535.8	5631.3	5592.0	5653.8	5614.4	5648.2	5653.8	5569.5	5468.3
30°	5642.5	5592.0	5648.2	5833.6	5850.5	5917.9	5850.5	5760.6	5788.7	5715.6	5665.0
32.5°	5901.1	5884.2	5991.0	6114.6	6137.1	6103.4	6069.7	6120.3	6002.2	5946.0	5856.1
35°	6069.7	6142.7	6272.0	6367.5	6440.6	6406.9	6423.7	6373.2	6401.3	6283.2	6243.9
37.5°	6569.9	6541.8	6569.9	6732.8	6749.7	6732.8	6749.7	6805.9	6766.6	6665.4	6564.2
40°	7041.9	6997.0	7064.4	7249.9	7238.6	7294.8	7182.4	7244.3	7244.3	7053.2	7013.8
42.5°	7396.0	7547.8	7626.4	7778.2	7834.4	7783.8	7761.3	7772.6	7896.2	7671.4	7587.1
45°	8126.6	8121.0	8357.0	8441.3	8284.0	8272.7	8227.8	8362.7	8447.0	8317.7	8284.0
47.5°	8919.0	8958.4	9093.3	9127.0	9222.5	9048.3	9048.3	9065.2	9363.0	9059.5	8902.2
50°	9632.8	9683.4	9953.1	10217.3	10037.4	9852.0	9925.0	10015.0	10177.9	9891.3	9756.4
52.5°	10498.3	10773.7	10953.5	11094.0	11223.3	11094.0	10925.4	11026.6	11346.9	10964.8	10796.1
55°	11745.9	11965.1	12133.7	12392.2	12499.0	12324.8	12307.9	12296.7	12476.5	12071.9	11841.5
57.5°	13139.7	13049.8	13319.6	13718.6	14106.4	13937.8	13887.2	13898.4	13943.4	13370.1	13195.9
60°	14870.7	14971.9	15292.2	15640.6	16050.9	16287.0	15955.4	15764.3	15803.6	15022.4	14752.7
62.5°	15859.8	16084.6	16809.6	18006.7	18832.8	19569.1	19619.7	18377.6	17545.9	16028.4	14881.9
65°	15382.1	15348.4	16714.1	18928.4	22058.8	24200.0	23879.7	20867.3	17961.7	15550.7	14010.8
67.5°	13083.5	12993.6	14645.9	18158.4	23328.9	28004.8	27639.5	21569.8	16556.7	13757.9	12015.7
70°	8430.1	8407.6	10200.4	13842.2	20828.0	25711.8	25846.7	19591.6	13476.9	10076.8	8351.4
72.5°	3062.9	3248.4	4288.1	7441.0	14145.7	19670.2	19754.5	14505.4	7750.1	4659.0	3433.9
75°	1129.6	1163.4	1354.4	2416.6	6446.2	12077.5	12392.2	7036.3	2753.8	1517.4	1236.4
77.5°	651.9	657.5	725.0	899.2	1910.8	4715.2	4906.3	2135.6	1067.8	809.3	747.5
80°	444.0	438.4	511.4	584.5	764.3	1337.6	1421.9	893.6	674.4	562.0	472.1
82.5°	258.5	275.4	376.5	415.9	466.5	590.1	601.3	556.4	505.8	415.9	309.1
85°	157.4	129.3	207.9	230.4	269.8	264.1	264.1	303.5	326.0	292.2	174.2
87.5°	39.3	39.3	50.6	56.2	73.1	56.2	61.8	118.0	157.4	146.1	89.9
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°	5378.4	5378.4	5378.4	5378.4	5378.4	5378.4	5378.4	5378.4	5378.4	5378.4	5378.4
2.5°	5389.6	5372.8	5384.0	5445.8	5406.5	5288.5	5316.6	5378.4	5327.8	5299.7	5294.1
5°	5367.2	5400.9	5361.5	5372.8	5412.1	5316.6	5333.4	5412.1	5378.4	5389.6	5327.8
7.5°	5372.8	5389.6	5355.9	5305.3	5305.3	5384.0	5339.1	5350.3	5299.7	5384.0	5271.6
10°	5339.1	5294.1	5254.8	5282.9	5271.6	5249.1	5232.3	5266.0	5215.4	5288.5	5209.8
12.5°	5237.9	5249.1	5237.9	5226.7	5249.1	5305.3	5215.4	5226.7	5148.0	5159.2	5198.6
15°	5198.6	5232.3	5221.0	5282.9	5311.0	5226.7	5294.1	5226.7	5164.8	5131.1	5192.9
17.5°	5215.4	5266.0	5249.1	5294.1	5243.5	5305.3	5316.6	5288.5	5215.4	5187.3	5215.4
20°	5232.3	5215.4	5237.9	5316.6	5389.6	5327.8	5327.8	5311.0	5243.5	5204.2	5204.2
22.5°	5271.6	5243.5	5277.2	5339.1	5361.5	5457.1	5372.8	5333.4	5221.0	5119.9	5215.4
25°	5350.3	5367.2	5389.6	5367.2	5490.8	5479.6	5468.3	5440.2	5266.0	5271.6	5254.8
27.5°	5502.0	5406.5	5434.6	5569.5	5586.3	5631.3	5575.1	5625.7	5440.2	5445.8	5333.4
30°	5687.5	5586.3	5676.3	5794.3	5788.7	5873.0	5844.9	5856.1	5726.8	5653.8	5502.0
32.5°	5889.8	5878.6	5934.8	6007.9	6036.0	6080.9	6075.3	6075.3	5996.6	5805.5	5833.6
35°	6114.6	6193.3	6260.8	6339.4	6350.7	6406.9	6328.2	6339.4	6260.8	6120.3	6165.2
37.5°	6558.6	6553.0	6626.1	6721.6	6732.8	6687.9	6749.7	6721.6	6614.8	6519.3	6446.2
40°	7075.7	6963.3	7030.7	7255.5	7272.4	7193.7	7188.1	7182.4	7103.8	6895.8	6850.9
42.5°	7525.3	7671.4	7660.2	7733.2	7682.6	7643.3	7783.8	7705.1	7643.3	7424.1	7384.8
45°	8104.1	8149.1	8295.2	8531.3	8289.6	8289.6	8385.1	8323.3	8289.6	8126.6	7974.9
47.5°	8823.5	8862.8	9155.1	9172.0	9014.6	8907.8	9205.7	9216.9	9076.4	8952.8	8767.3
50°	9666.5	9683.4	9947.5	10217.3	10043.1	9840.7	10144.2	10262.2	9947.5	9778.9	9548.5
52.5°	10593.8	10543.2	10762.4	11268.2	11099.6	11037.8	11363.8	11391.9	10964.8	10700.6	10762.4
55°	11661.6	11594.2	12189.9	12532.8	12426.0	12313.6	12459.7	12527.1	12184.3	11751.6	11903.3
57.5°	13044.2	13077.9	13375.8	13713.0	13887.2	13915.3	13982.7	13915.3	13566.8	13128.5	12988.0
60°	14426.7	14527.9	15106.7	15741.8	15798.0	16292.6	16202.7	15865.5	15370.9	14747.1	14775.2
62.5°	14938.1	14853.8	15786.8	17337.9	18658.6	19563.5	19164.4	17967.4	16820.9	15685.6	15769.9
65°	13909.7	14117.6	15387.7	17815.6	20681.8	24261.8	22137.4	18827.2	16511.8	15044.9	14881.9
67.5°	11987.6	12145.0	13757.9	16320.7	21406.8	27150.5	23261.5	17613.3	14561.6	12662.0	12763.2
70°	8351.4	8430.1	10009.3	13370.1	19411.7	25621.9	20985.3	13527.5	10054.3	8014.2	8126.6
72.5°	3360.8	3551.9	4591.6	8053.6	14331.2	19467.9	14128.8	7098.1	4170.1	3102.3	2815.7
75°	1242.0	1247.7	1466.8	2770.7	6805.9	12234.9	6373.2	2281.7	1332.0	1090.3	1039.7
77.5°	719.4	713.7	764.3	1000.4	1972.6	4777.1	1809.7	893.6	725.0	651.9	623.8
80°	449.6	444.0	522.7	663.2	865.5	1309.5	764.3	556.4	488.9	421.5	421.5
82.5°	286.6	292.2	410.3	488.9	528.3	578.9	444.0	393.4	365.3	241.7	236.0
85°	185.5	168.6	286.6	326.0	292.2	258.5	247.3	207.9	191.1	118.0	129.3
87.5°	84.3	89.9	146.1	163.0	106.8	61.8	61.8	45.0	45.0	28.1	28.1
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)