

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: P481343

Luminaire Tested: **IFLD-L-SA7D-750-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481343
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-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

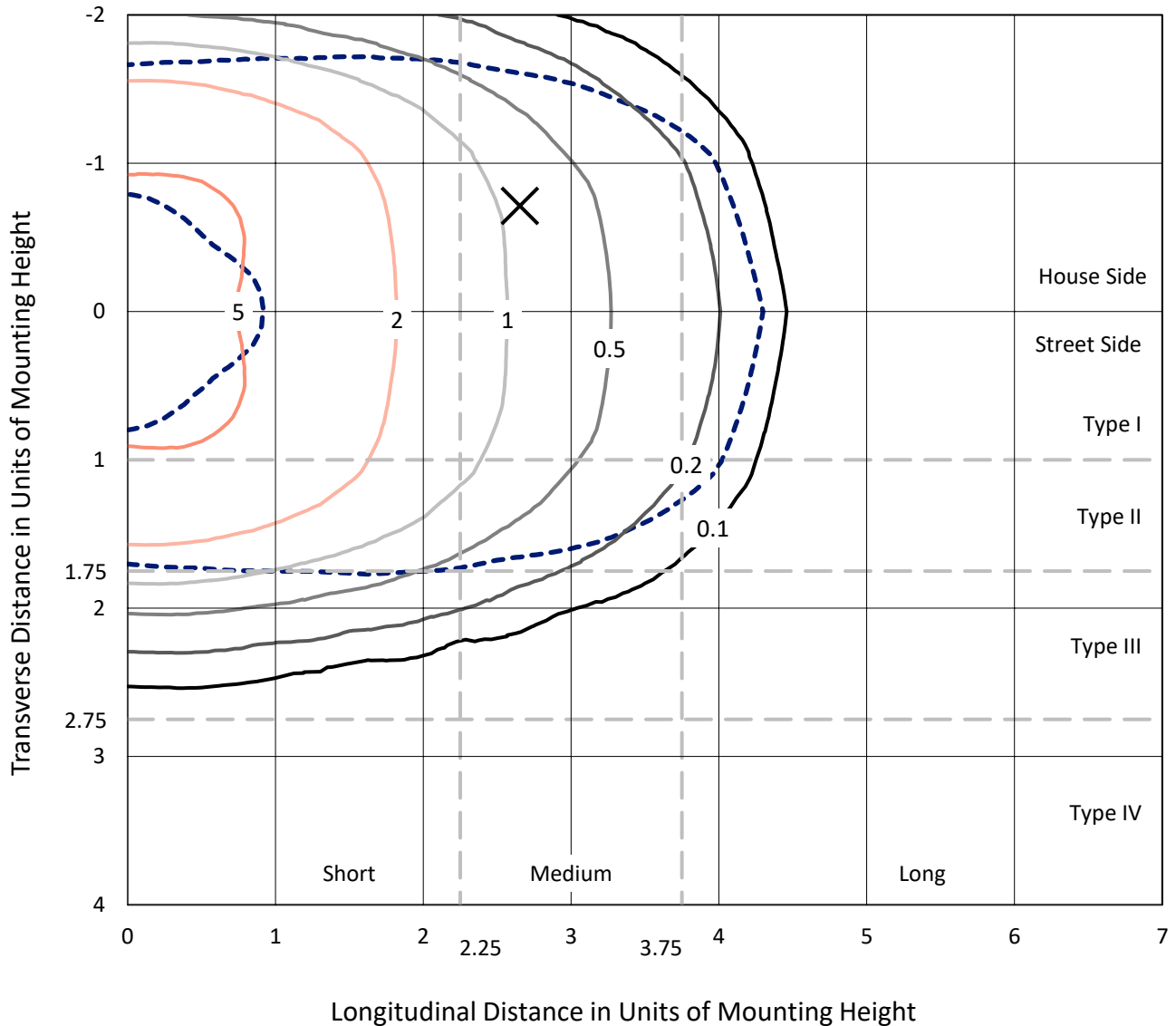
Lumens per Lamp: N/A
Luminaire Lumens: 51394.4 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

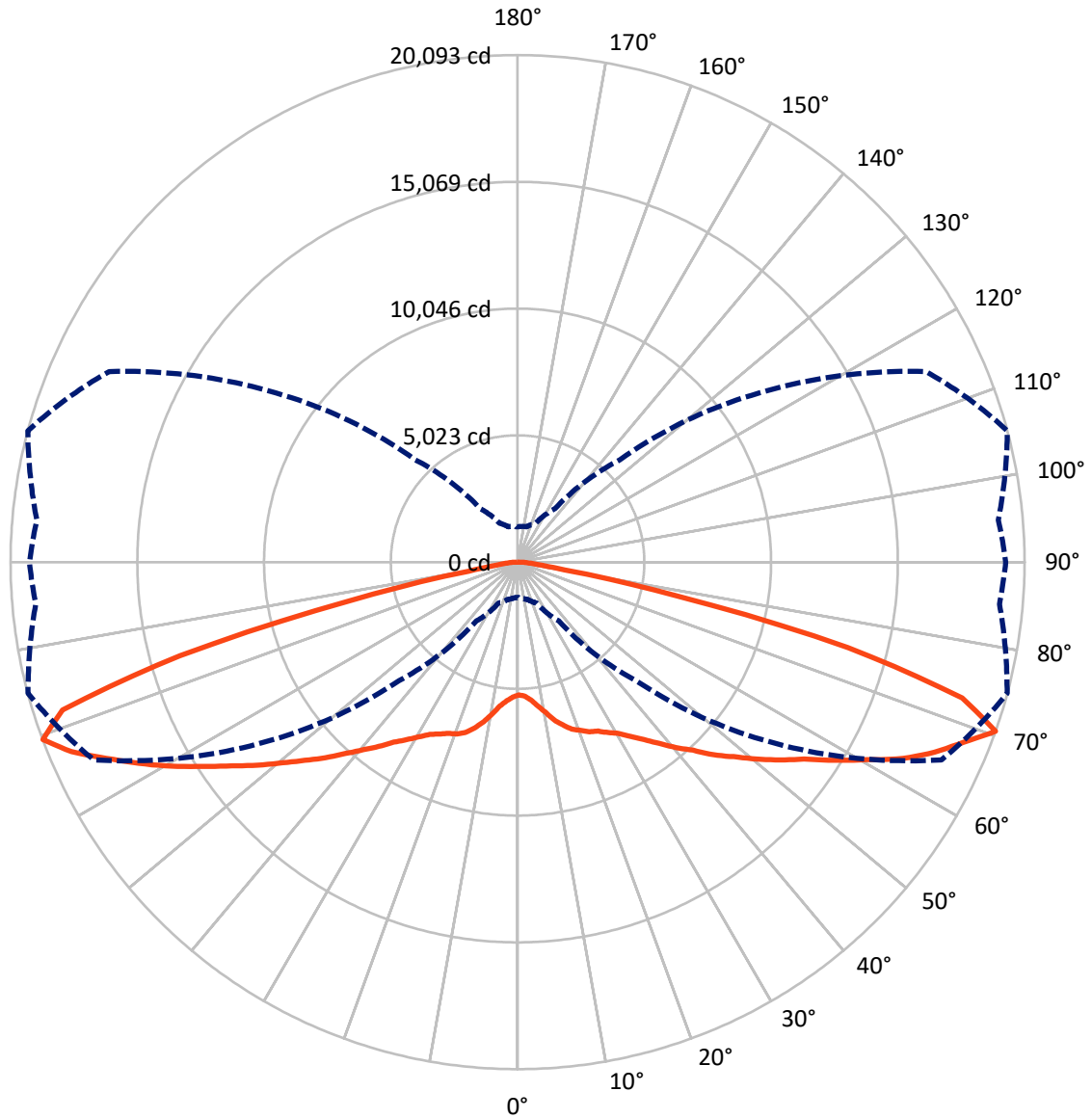
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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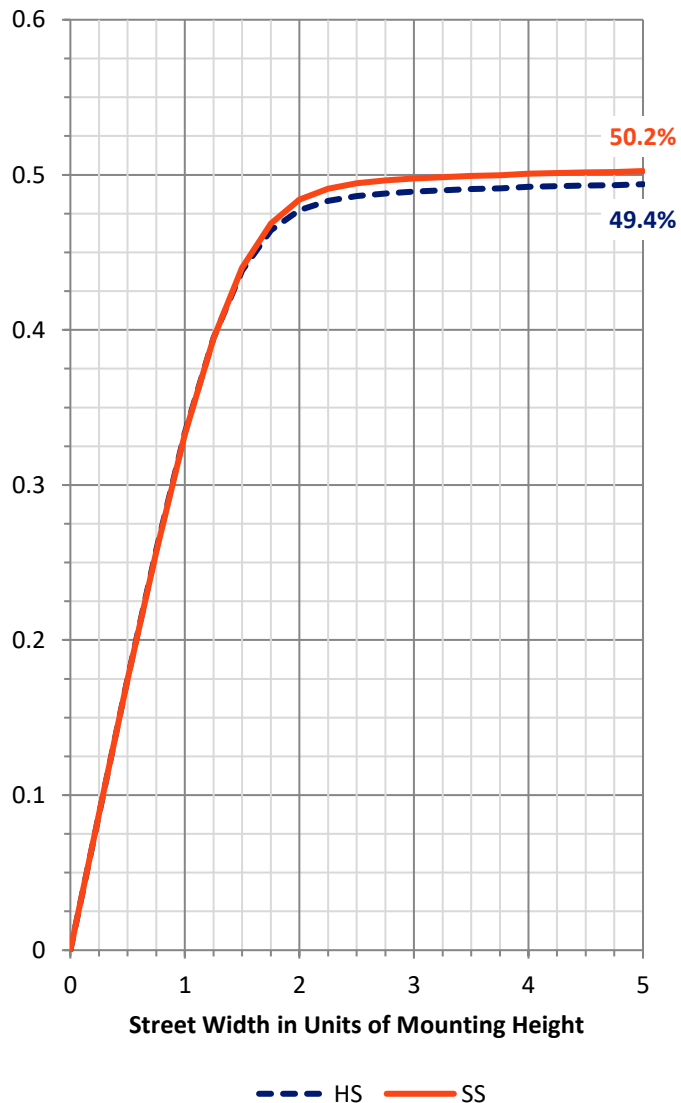
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25514.4	0.0	25514.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	25880.0	0.0	25880.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	51394.4	0.0	51394.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.8	1.0
10°-20°	1783.6	3.5
20°-30°	3453.6	6.7
30°-40°	5841.4	11.4
40°-50°	9318.8	18.1
50°-60°	12755.4	24.8
60°-70°	12022.8	23.4
70°-80°	5296.4	10.3
80°-90°	398.5	0.8
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°	51394.4	100.0
0°-180°	51394.4	100.0

Coefficient of Utilization

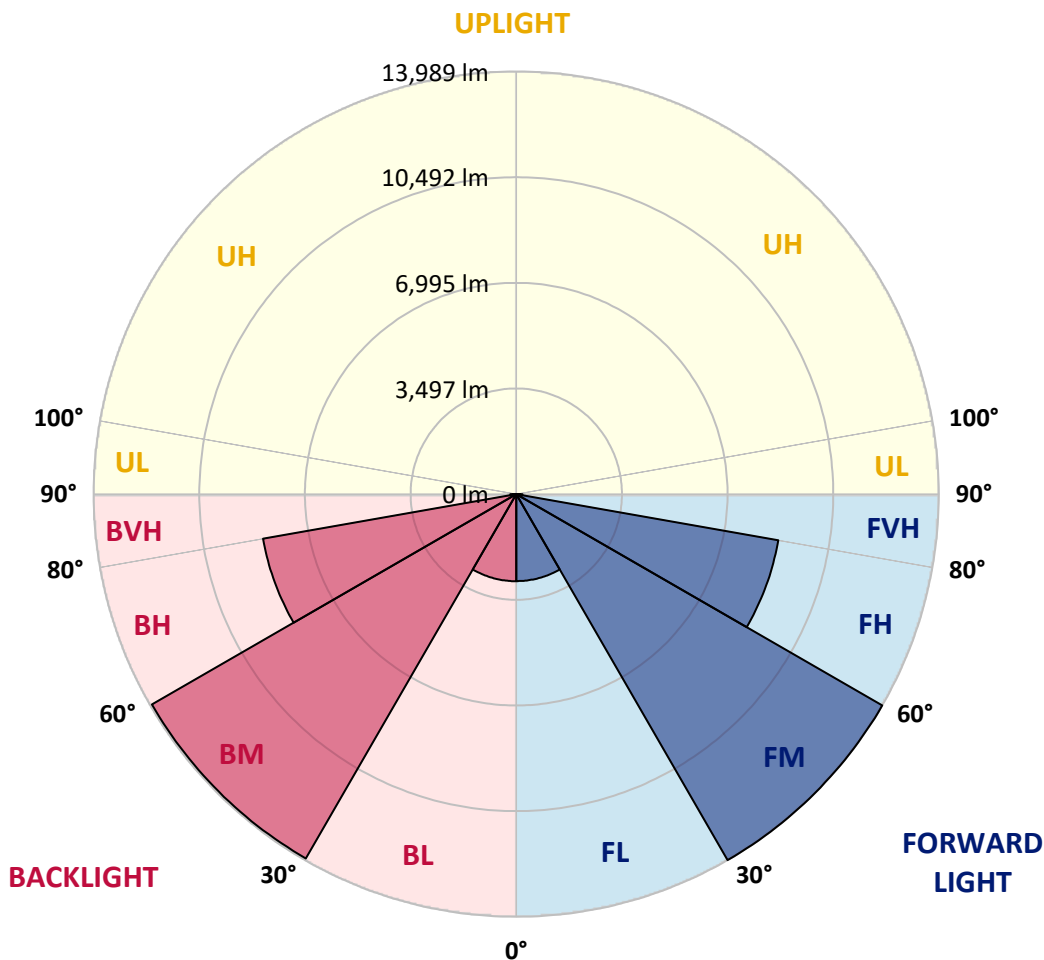


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2878.9	5.6			
FM (30°-60°)	13989.1	27.2			
FH (60°-80°)	8808.4	17.1			G4/12000
FVH (80°-90°)	203.6	0.4			G2/225
BL (0°-30°)	2882.0	5.6	B4/5000		
BM (30°-60°)	13926.6	27.1	B5		
BH (60°-80°)	8510.8	16.6	B5		G5
BVH (80°-90°)	194.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7
2.5°	5229.5	5229.5	5224.0	5251.7	5279.4	5290.4	5312.6	5318.1	5351.4	5323.7	5379.1
5°	5212.9	5207.3	5251.7	5318.1	5318.1	5390.1	5434.5	5495.4	5512.0	5545.3	5556.3
7.5°	5329.2	5318.1	5296.0	5368.0	5428.9	5539.7	5600.7	5705.9	5744.7	5789.0	5838.9
10°	5401.2	5401.2	5379.1	5506.5	5561.9	5711.4	5844.4	5949.7	6099.2	6149.1	6154.6
12.5°	5412.3	5428.9	5495.4	5661.6	5816.7	6010.6	6110.3	6309.7	6459.3	6553.5	6586.7
15°	5578.5	5545.3	5617.3	5844.4	6071.5	6243.3	6420.5	6564.6	6780.6	6902.5	6980.0
17.5°	5728.1	5694.8	5827.8	6099.2	6331.9	6597.8	6752.9	6908.0	7063.1	7173.9	7179.5
20°	5966.3	5994.0	6110.3	6403.9	6708.6	6941.3	7118.5	7146.2	7223.8	7384.4	7356.7
22.5°	6259.9	6237.7	6481.5	6802.8	7135.2	7329.0	7428.8	7356.7	7318.0	7489.7	7528.5
25°	6553.5	6620.0	6841.6	7140.7	7539.6	7799.9	7827.6	7628.2	7484.2	7545.1	7528.5
27.5°	7002.2	7013.3	7246.0	7600.5	8004.9	8232.0	8215.4	7932.9	7655.9	7661.4	7672.5
30°	7578.3	7522.9	7777.8	8099.1	8497.9	8702.9	8730.6	8326.2	7955.0	7844.2	7871.9
32.5°	8132.3	8198.8	8420.4	8786.0	9079.6	9195.9	9135.0	8774.9	8293.0	8143.4	8160.0
35°	8841.4	8830.3	9135.0	9445.2	9666.8	9689.0	9639.1	9112.8	8658.6	8464.7	8387.1
37.5°	9600.3	9700.0	9899.5	10154.3	10387.0	10398.0	10126.6	9705.6	9146.1	8824.8	8918.9
40°	10447.9	10558.7	10702.7	11073.9	11245.6	11068.4	10791.4	10220.8	9639.1	9356.6	9400.9
42.5°	11195.8	11245.6	11539.2	11976.9	12060.0	11982.4	11572.5	10880.0	10204.2	9893.9	9916.1
45°	11882.7	11949.2	12331.4	12724.7	12918.6	12785.7	12309.3	11650.0	10863.4	10597.5	10492.2
47.5°	12514.2	12647.2	13018.3	13422.7	13721.9	13733.0	13145.7	12348.0	11517.1	11168.1	11162.5
50°	12940.8	13134.7	13500.3	13960.1	14397.7	14569.5	13982.2	13123.6	12231.7	11860.5	11821.8
52.5°	13173.4	13372.9	13738.5	14453.1	14940.6	15206.5	14929.5	13849.3	13068.2	12680.4	12619.5
55°	12890.9	13023.9	13622.2	14624.9	15378.3	15815.9	15633.1	14852.0	13899.2	13583.4	13638.8
57.5°	11688.8	11965.8	12702.6	13954.5	15367.2	16441.9	16425.3	15799.3	14857.5	14558.4	14569.5
60°	9622.5	9855.2	10763.7	12514.2	14746.7	16696.7	17283.9	16718.9	15932.2	15583.2	15572.1
62.5°	6791.7	7085.3	8137.8	10049.0	12918.6	16342.2	18270.0	17876.7	16984.8	16729.9	16824.1
65°	3800.2	3977.5	4952.5	6680.9	9844.1	14392.2	18447.3	19078.8	18053.9	17666.2	17682.8
67.5°	2033.1	2099.6	2553.8	3506.6	6021.7	11096.1	16657.9	19771.3	19211.7	18541.4	18436.2
70°	1396.0	1418.2	1534.5	1794.9	2847.4	6636.6	12564.1	18535.9	20081.5	19167.4	19344.7
72.5°	1180.0	1168.9	1196.6	1224.3	1490.2	2969.3	7373.4	14264.8	18956.9	18613.5	18547.0
75°	1024.8	1019.3	1030.4	1002.7	1035.9	1307.4	3262.9	8891.2	13877.0	15489.1	15738.3
77.5°	847.6	853.1	858.7	831.0	819.9	864.2	1312.9	3905.5	6830.5	7539.6	8132.3
80°	642.6	653.7	698.0	670.3	626.0	631.5	775.6	1307.4	1961.1	1778.2	1833.6
82.5°	437.6	443.2	537.4	504.1	470.9	426.6	498.6	675.8	764.5	581.7	509.7
85°	310.2	304.7	349.0	321.3	299.1	216.0	299.1	382.2	459.8	288.1	260.4
87.5°	72.0	72.0	144.0	116.3	110.8	88.6	116.3	149.6	199.4	127.4	116.3
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°	145°	155°	165°	175°	180°
0°	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7
2.5°	5362.4	5312.6	5312.6	5301.5	5257.2	5246.1	5207.3	5218.4	5190.7	5163.0
5°	5550.8	5484.3	5484.3	5390.1	5301.5	5290.4	5246.1	5246.1	5201.8	5212.9
7.5°	5811.2	5750.2	5650.5	5567.4	5445.5	5395.7	5312.6	5301.5	5290.4	5268.3
10°	6121.4	6043.8	5944.1	5772.4	5672.7	5578.5	5495.4	5379.1	5351.4	5356.9
12.5°	6542.4	6420.5	6204.5	6054.9	5927.5	5805.6	5683.8	5512.0	5473.2	5489.9
15°	6841.6	6686.4	6470.4	6415.0	6243.3	6093.7	5894.3	5700.4	5633.9	5617.3
17.5°	7085.3	6957.9	6830.5	6747.4	6608.9	6426.1	6149.1	5927.5	5777.9	5761.3
20°	7284.7	7118.5	7090.8	7140.7	6969.0	6847.1	6509.2	6237.7	6038.3	5955.2
22.5°	7406.6	7301.3	7378.9	7423.2	7412.1	7207.2	6858.2	6542.4	6293.1	6215.6
25°	7539.6	7417.7	7694.7	7844.2	7883.0	7545.1	7273.6	6858.2	6614.4	6564.6
27.5°	7606.0	7650.3	7971.7	8287.4	8259.7	7999.4	7633.7	7262.6	7068.7	6980.0
30°	7799.9	7871.9	8359.4	8714.0	8719.5	8464.7	8187.7	7766.7	7550.6	7511.9
32.5°	8148.9	8237.6	8758.3	9135.0	9201.5	9007.6	8730.6	8470.2	8248.6	8160.0
35°	8414.8	8642.0	9229.2	9572.6	9749.9	9633.6	9478.5	9207.0	8974.3	8896.8
37.5°	8797.1	9112.8	9677.9	10143.2	10342.7	10331.6	10215.2	9921.6	9727.7	9661.3
40°	9345.5	9661.3	10176.5	10791.4	11162.5	11145.9	11079.4	10852.3	10564.2	10531.0
42.5°	9927.2	10187.5	10857.8	11561.4	12093.2	12037.8	11860.5	11594.6	11395.2	11350.9
45°	10492.2	10896.6	11517.1	12420.0	12818.9	12957.4	12746.9	12292.6	12065.5	12037.8
47.5°	11201.3	11522.6	12298.2	13107.0	13699.7	13721.9	13361.8	12940.8	12525.3	12613.9
50°	11832.8	12259.4	13046.0	13932.4	14641.5	14386.6	13926.8	13400.6	13101.4	12985.1
52.5°	12508.7	13029.4	13943.5	14846.4	15239.8	14984.9	14237.1	13649.9	13195.6	13145.7
55°	13494.8	13766.2	14962.8	15655.2	15782.7	15245.3	14142.9	13311.9	12724.7	12580.7
57.5°	14497.4	14813.2	15860.2	16458.5	16325.5	15101.3	13533.5	12248.3	11478.3	11273.3
60°	15511.2	15899.0	16779.8	17328.2	16641.3	14109.7	11810.7	10154.3	9256.9	9074.1
62.5°	16641.3	17145.4	17932.1	18126.0	15705.1	12148.6	9373.2	7329.0	6420.5	6115.8
65°	17644.0	18159.2	19128.6	17959.8	13716.3	9063.0	6060.5	4188.0	3517.7	3274.0
67.5°	18469.4	19051.1	19527.5	15893.4	10043.5	5307.0	3157.6	2204.8	1955.5	1866.9
70°	19123.1	20092.6	17865.6	11683.3	5739.1	2587.0	1706.2	1451.4	1418.2	1396.0
72.5°	18552.5	18425.1	13339.6	6741.8	2515.0	1423.7	1235.4	1196.6	1191.0	1196.6
75°	15173.3	13533.5	7977.2	2930.5	1263.1	1030.4	1024.8	1008.2	1035.9	1035.9
77.5°	7362.3	6437.2	3334.9	1257.5	831.0	808.8	836.5	836.5	836.5	836.5
80°	1706.2	1889.0	1191.0	764.5	603.8	603.8	664.8	670.3	642.6	631.5
82.5°	581.7	775.6	653.7	482.0	398.9	448.7	504.1	515.2	426.6	432.1
85°	288.1	454.3	354.5	277.0	205.0	277.0	326.8	343.5	293.6	282.5
87.5°	133.0	199.4	133.0	94.2	72.0	99.7	94.2	77.6	44.3	44.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)