

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: P484034

Luminaire Tested: **IFLD-L-SA7D-740-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484034
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-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

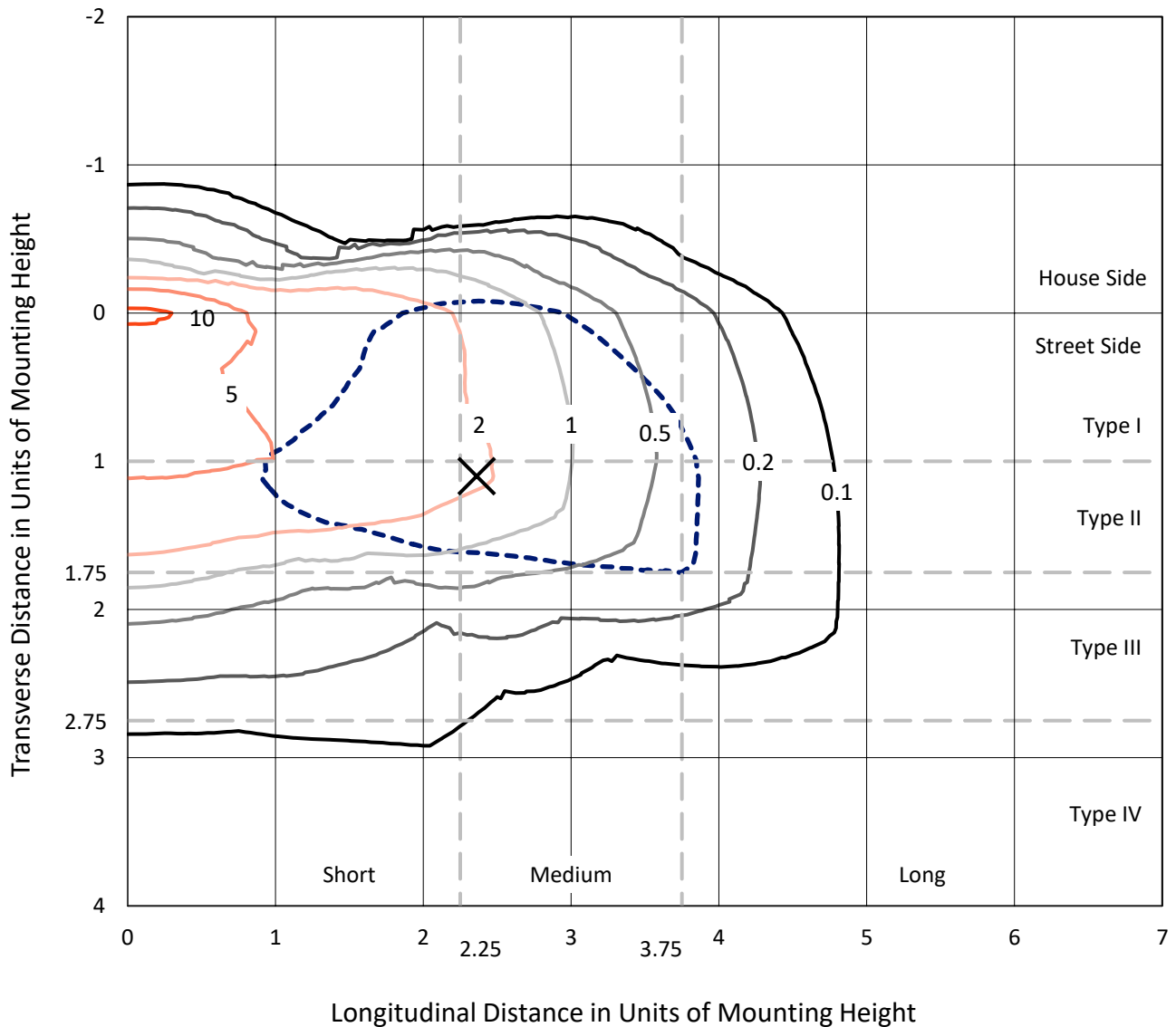
Lumens per Lamp: N/A
Luminaire Lumens: 40147.7 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

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

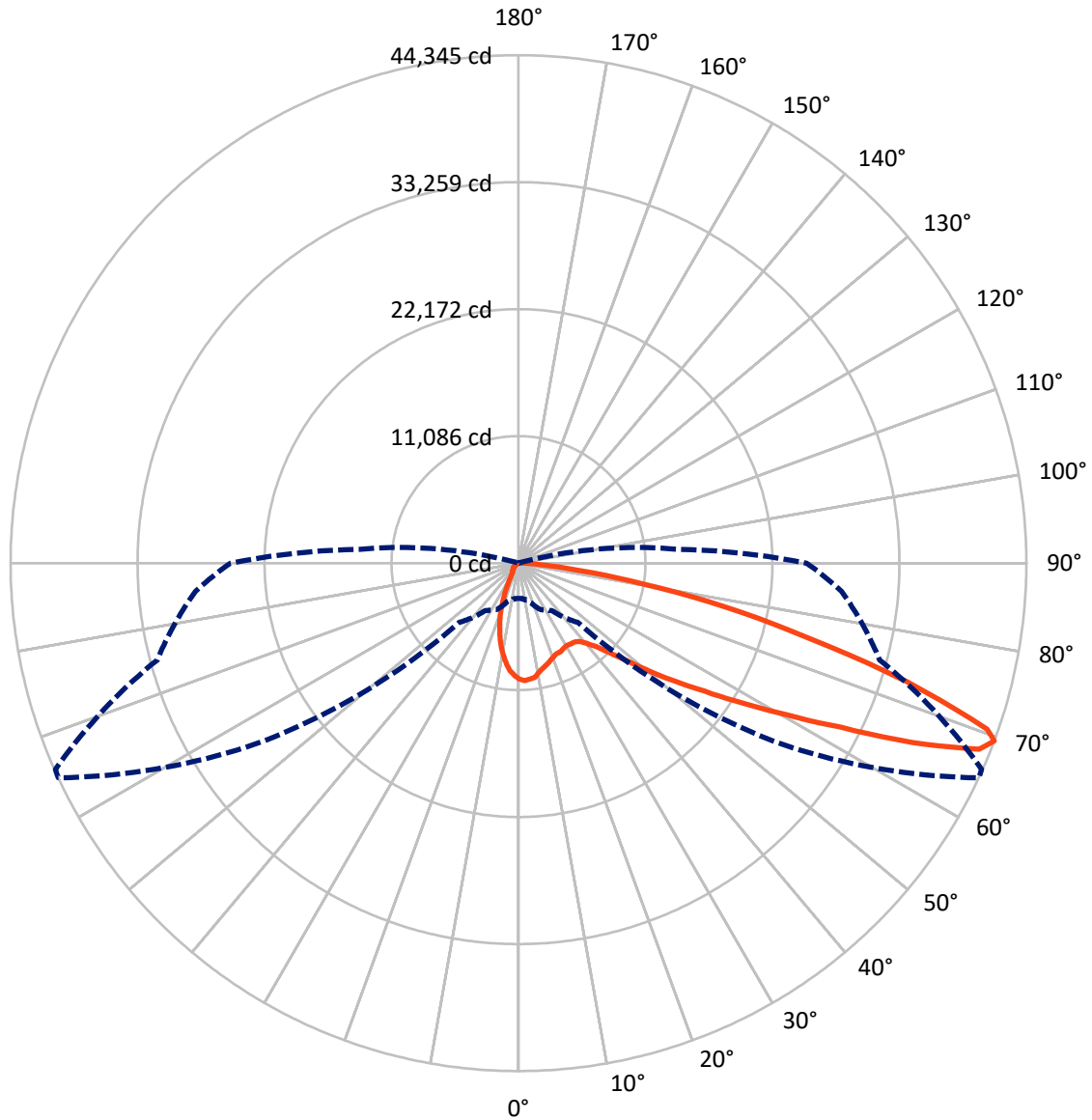
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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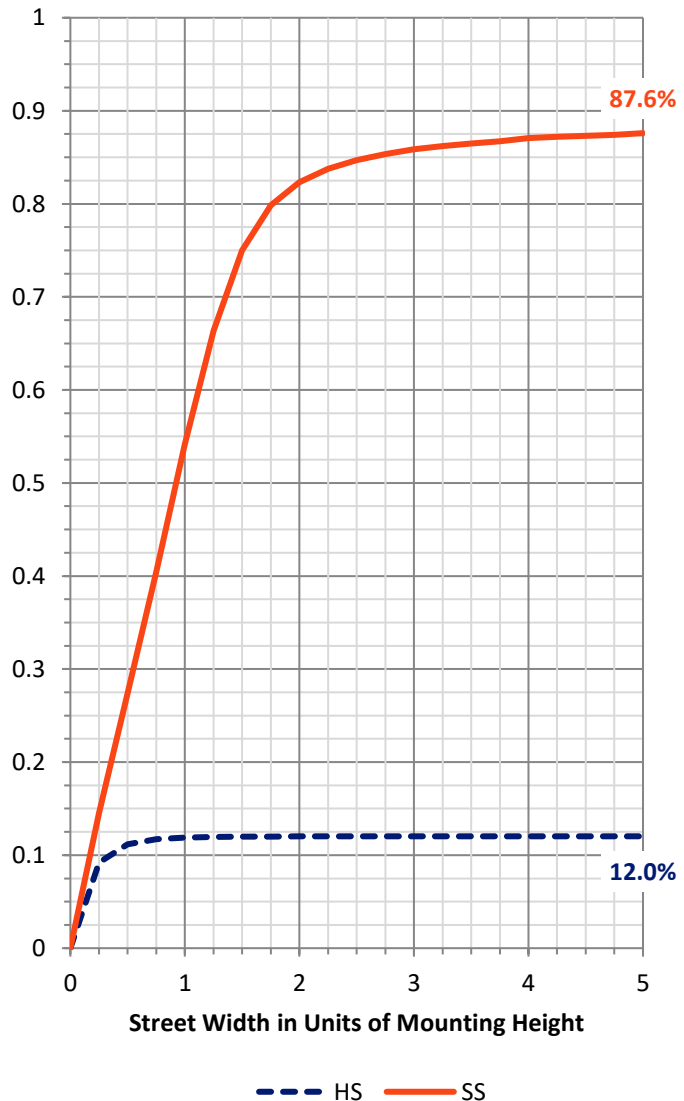
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4870.2	0.0	4870.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	35277.6	0.0	35277.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	40147.7	0.0	40147.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	828.3	2.1
10°-20°	1812.4	4.5
20°-30°	2523.2	6.3
30°-40°	3575.6	8.9
40°-50°	5635.1	14.0
50°-60°	9143.8	22.8
60°-70°	10211.7	25.4
70°-80°	5750.4	14.3
80°-90°	667.3	1.7
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°	40147.7	100.0
0°-180°	40147.7	100.0

Coefficient of Utilization



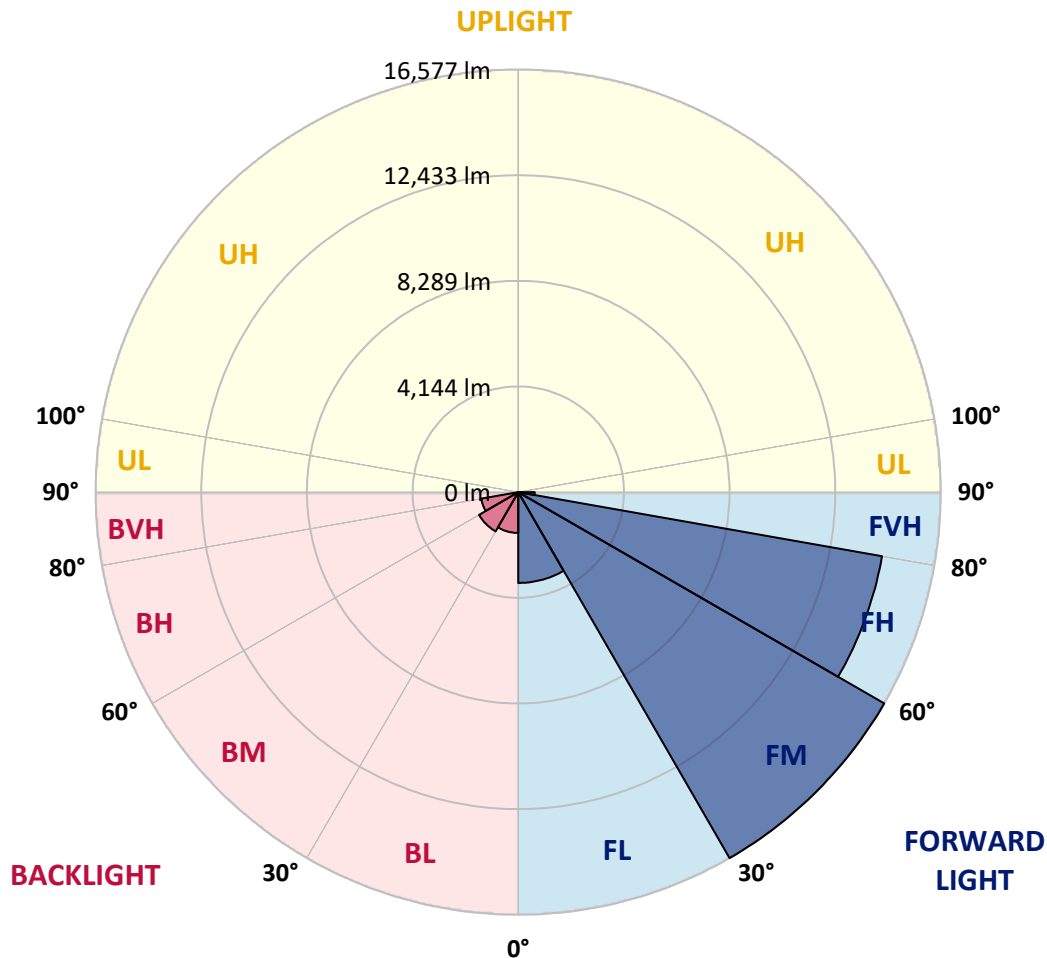
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3562.7	8.9			
FM (30°-60°)	16577.4	41.3			
FH (60°-80°)	14488.6	36.1			G5
FVH (80°-90°)	648.9	1.6			G4/750
BL (0°-30°)	1601.2	4.0	B3/2500		
BM (30°-60°)	1777.1	4.4	B2/2500		
BH (60°-80°)	1473.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	18.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10122.2	10122.2	10122.2	10122.2	10122.2	10122.2	10122.2	10122.2	10122.2	10122.2	10122.2
2.5°	9748.5	9824.3	9846.0	9921.8	9959.7	10122.2	10214.2	10268.4	10241.3	10300.9	10306.3
5°	9055.3	9011.9	9125.7	9206.9	9380.2	9661.8	9948.9	10170.9	10273.8	10371.3	10355.1
7.5°	8313.3	8291.6	8405.4	8589.5	8746.6	9087.8	9548.1	10095.1	10073.4	10311.7	10382.1
10°	7804.2	7825.9	7863.8	8047.9	8280.8	8627.4	9201.5	9710.6	9824.3	10328.0	10468.8
12.5°	7338.4	7376.4	7446.8	7636.3	7907.1	8264.5	8822.4	9418.1	9591.4	10235.9	10517.5
15°	7186.8	7100.1	7241.0	7381.8	7663.4	7982.9	8454.1	9196.1	9271.9	10127.6	10598.8
17.5°	7062.2	7008.1	7073.1	7186.8	7484.7	7744.6	8188.7	8957.8	9098.6	10084.3	10587.9
20°	7100.1	7051.4	7078.5	7165.1	7300.5	7544.2	7955.8	8730.3	8882.0	9883.9	10571.7
22.5°	7208.5	7246.4	7197.6	7219.3	7262.6	7387.2	7831.3	8567.8	8697.8	9846.0	10663.8
25°	7695.9	7630.9	7565.9	7538.8	7284.3	7338.4	7793.4	8557.0	8649.1	9710.6	10587.9
27.5°	8205.0	8150.8	8123.7	7966.7	7620.1	7457.6	7798.8	8405.4	8529.9	9656.4	10495.9
30°	8822.4	8892.8	8784.5	8594.9	8112.9	7712.1	7858.4	8329.5	8502.8	9450.6	10436.3
32.5°	9472.3	9510.2	9564.3	9423.5	8800.7	8096.7	8037.1	8399.9	8410.8	9450.6	10300.9
35°	10208.8	10154.7	10295.5	10306.3	9759.3	8779.1	8378.3	8448.7	8562.4	9407.3	10252.2
37.5°	10842.5	10934.5	11097.0	11357.0	10793.7	9743.1	8909.0	8676.2	8724.9	9607.7	10290.1
40°	11535.7	11627.8	11996.1	12256.0	11936.5	10826.2	9716.0	9206.9	9244.8	9905.5	10485.0
42.5°	12299.3	12478.1	12916.7	13371.7	13285.0	12201.9	10755.8	9986.8	9970.5	10647.5	10885.8
45°	13333.8	13572.1	14048.6	14574.0	14649.8	13777.9	12142.3	11151.2	11205.3	11616.9	11714.4
47.5°	14774.4	14763.5	15229.3	15814.2	16252.9	15413.4	13799.5	12716.4	12710.9	13149.6	12943.8
50°	16166.2	16171.7	16296.2	16973.2	18110.5	17682.7	15852.1	14796.0	14736.5	14953.1	14622.7
52.5°	16810.7	16734.9	16642.8	17460.6	19540.3	20542.2	18451.7	17151.9	17103.2	16973.2	16886.5
55°	16133.7	16160.8	16155.4	17005.7	20293.1	23558.8	21787.9	19746.1	19664.9	19258.7	19377.8
57.5°	13962.0	13875.3	14064.9	15391.8	19432.0	25616.8	26559.2	23017.3	22806.0	21457.5	21186.7
60°	10393.0	10420.0	10577.1	12142.3	17292.7	26050.1	31124.7	26857.1	25947.2	23006.4	22632.7
62.5°	7257.2	7203.0	7262.6	8140.0	12364.3	24317.1	34211.8	31525.5	30648.1	24766.6	24549.9
65°	5193.8	5123.4	5361.7	5897.8	7425.1	18592.5	34650.4	37742.9	36957.6	27577.4	27057.5
67.5°	3736.9	3726.1	4002.3	4977.1	5275.0	10707.1	31400.9	43375.3	42898.7	30913.5	28584.7
69°	3092.4	3097.9	3363.2	4457.2	5036.7	7311.4	27019.5	44344.8	44258.1	32635.8	28297.7
70°	2697.1	2718.7	3027.4	4148.5	4939.2	6011.6	23293.5	43391.6	43304.9	32971.5	27349.9
72.5°	1662.7	1678.9	2085.1	3325.3	4695.5	4906.7	13929.5	35500.7	35798.6	31433.4	23564.3
75°	796.1	801.5	1094.0	2404.6	4527.6	4652.2	7463.0	26196.3	26824.6	25378.6	18413.8
77.5°	422.4	422.4	525.3	1278.1	3666.5	4376.0	4430.1	18478.8	18998.7	16047.1	10468.8
80°	211.2	216.6	319.5	666.1	2274.6	4289.3	3460.7	11021.2	11302.8	6547.7	3260.3
82.5°	81.2	86.7	151.6	400.8	1180.6	3623.2	3038.3	5421.2	5350.8	1532.7	796.1
85°	10.8	10.8	54.2	238.3	503.7	1597.7	2507.5	2263.8	2188.0	335.8	384.5
87.5°	0.0	0.0	10.8	70.4	151.6	465.8	969.4	622.8	693.2	92.1	189.6
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°	10122.2	10122.2	10122.2	10122.2	10122.2	10122.2	10122.2	10122.2	10122.2	10122.2	10122.2
2.5°	10279.2	10165.5	9992.2	9824.3	9645.6	9428.9	9190.7	9104.0	8952.4	8941.5	9028.2
5°	10268.4	10084.3	9781.0	9423.5	8914.4	8529.9	8112.9	7809.6	7576.7	7425.1	7463.0
7.5°	10322.6	10100.5	9575.2	8806.1	8150.8	7387.2	6742.7	6298.6	5892.4	5692.0	5670.4
10°	10235.9	9938.0	9169.0	8091.2	7127.2	6060.3	5118.0	4522.2	3915.6	3693.6	3704.4
12.5°	10284.7	9867.6	8730.3	7354.7	6027.8	4641.4	3514.9	2702.5	2133.8	1949.7	1928.0
15°	10317.1	9716.0	8307.9	6471.9	4809.3	3162.8	2036.3	1532.7	1354.0	1321.5	1316.0
17.5°	10192.6	9531.9	7712.1	5600.0	3563.6	1922.6	1354.0	1251.1	1218.6	1196.9	1186.1
20°	10187.2	9423.5	7197.6	4706.4	2377.5	1310.6	1169.8	1131.9	1083.2	1066.9	1066.9
22.5°	10095.1	9196.1	6580.2	3726.1	1516.4	1126.5	1050.7	991.1	936.9	915.3	909.9
25°	10068.0	8930.7	6000.7	2800.0	1153.6	1007.3	931.5	844.9	779.9	747.4	731.1
27.5°	9992.2	8703.2	5415.8	1971.4	1007.3	899.0	801.5	709.5	633.7	584.9	579.5
30°	9721.4	8464.9	4765.9	1364.8	915.3	796.1	687.8	579.5	503.7	471.2	460.3
32.5°	9607.7	8242.9	4056.5	1050.7	834.0	704.1	579.5	482.0	422.4	389.9	384.5
35°	9472.3	7917.9	3368.6	915.3	758.2	612.0	487.4	406.2	357.4	330.4	330.4
37.5°	9488.5	7658.0	2724.2	828.6	677.0	525.3	417.0	346.6	303.3	276.2	276.2
40°	9439.8	7452.2	2117.6	752.8	601.2	449.5	352.0	292.5	254.5	227.5	222.0
42.5°	9661.8	7398.0	1597.7	687.8	525.3	384.5	303.3	249.1	211.2	178.7	178.7
45°	10035.5	7484.7	1245.6	628.2	449.5	330.4	260.0	205.8	167.9	146.2	140.8
47.5°	11032.0	7825.9	974.8	579.5	384.5	287.0	216.6	167.9	135.4	113.7	108.3
50°	12478.1	8589.5	828.6	509.1	324.9	243.7	178.7	130.0	108.3	86.7	81.2
52.5°	14536.1	9873.0	752.8	449.5	270.8	200.4	140.8	102.9	81.2	65.0	59.6
55°	16778.2	11476.1	682.4	379.1	227.5	162.5	113.7	81.2	59.6	43.3	37.9
57.5°	18527.5	12862.6	622.8	314.1	184.1	130.0	86.7	59.6	43.3	27.1	21.7
60°	20439.3	13837.4	547.0	249.1	151.6	97.5	65.0	43.3	32.5	16.2	16.2
62.5°	22410.7	14980.2	449.5	195.0	119.1	75.8	48.7	32.5	21.7	5.4	5.4
65°	25151.1	15873.8	346.6	151.6	92.1	54.2	37.9	27.1	10.8	0.0	0.0
67.5°	25925.6	15435.1	254.5	119.1	65.0	37.9	27.1	16.2	5.4	0.0	0.0
69°	25151.1	13902.4	222.0	102.9	54.2	32.5	21.7	10.8	5.4	0.0	0.0
70°	23737.6	12710.9	195.0	86.7	48.7	32.5	16.2	10.8	5.4	0.0	0.0
72.5°	19854.4	9748.5	151.6	65.0	37.9	27.1	16.2	10.8	0.0	0.0	0.0
75°	14563.2	6022.4	113.7	48.7	32.5	21.7	16.2	10.8	0.0	0.0	0.0
77.5°	7804.2	2198.8	81.2	32.5	21.7	16.2	16.2	10.8	0.0	0.0	0.0
80°	2139.3	649.9	59.6	21.7	16.2	10.8	10.8	5.4	0.0	0.0	0.0
82.5°	584.9	167.9	37.9	21.7	16.2	10.8	5.4	0.0	0.0	0.0	0.0
85°	314.1	65.0	21.7	16.2	10.8	5.4	0.0	0.0	0.0	0.0	0.0
87.5°	162.5	21.7	16.2	10.8	10.8	5.4	0.0	0.0	0.0	0.0	0.0
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)