

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: P484921

Luminaire Tested: **IFLD-S-SA6D-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484921
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

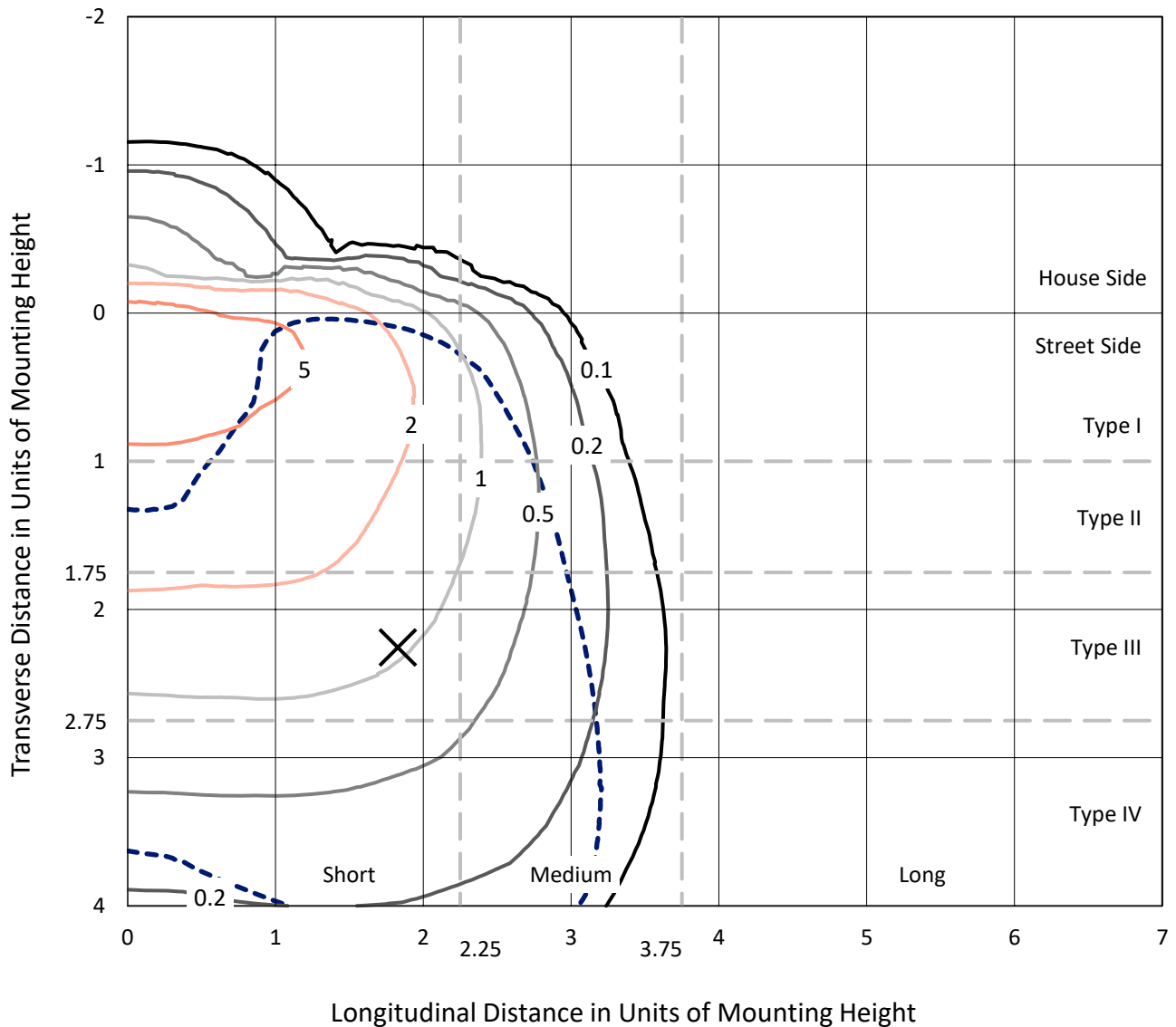
Lumens per Lamp: N/A
Luminaire Lumens: 27765.9 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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

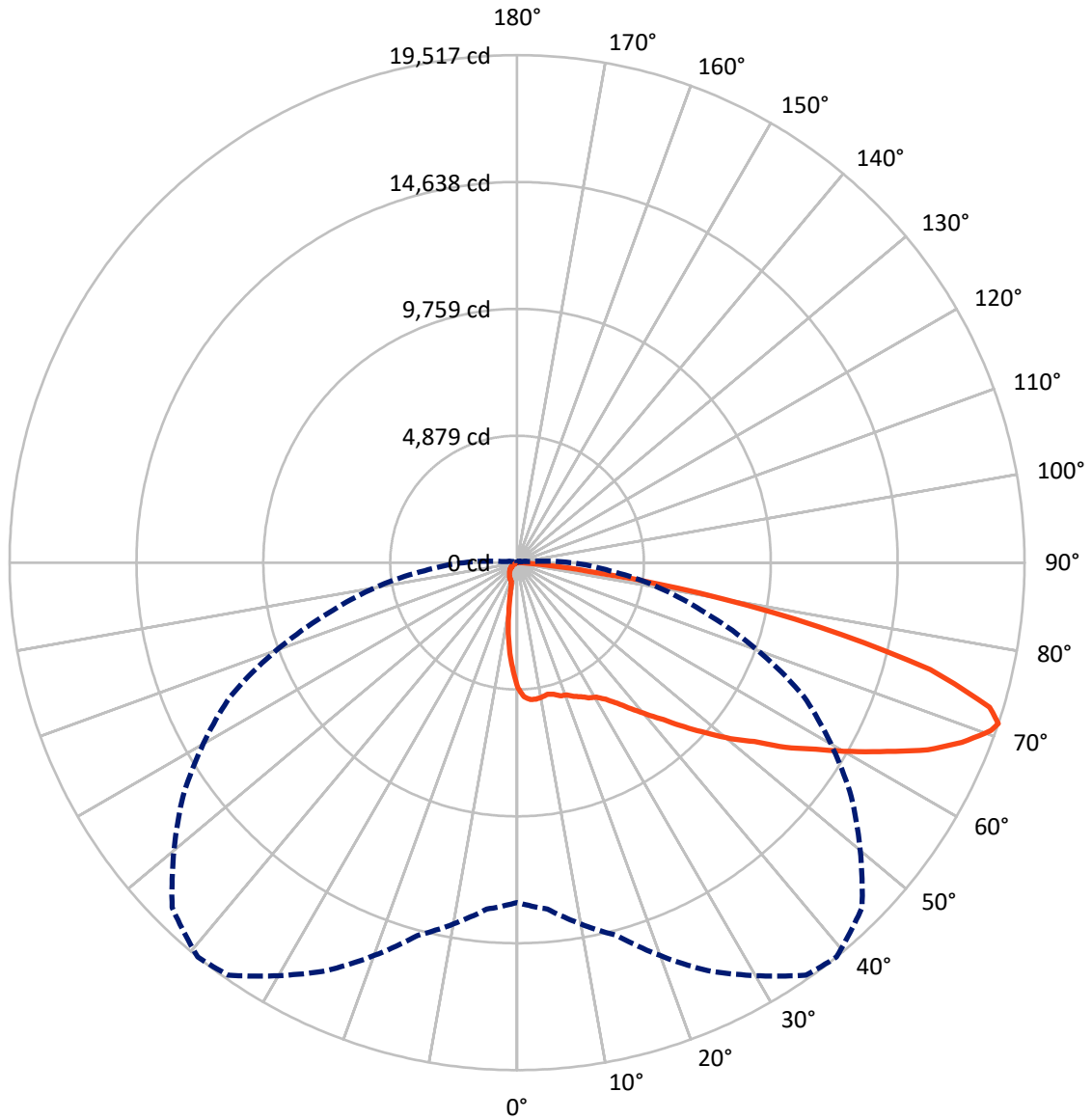
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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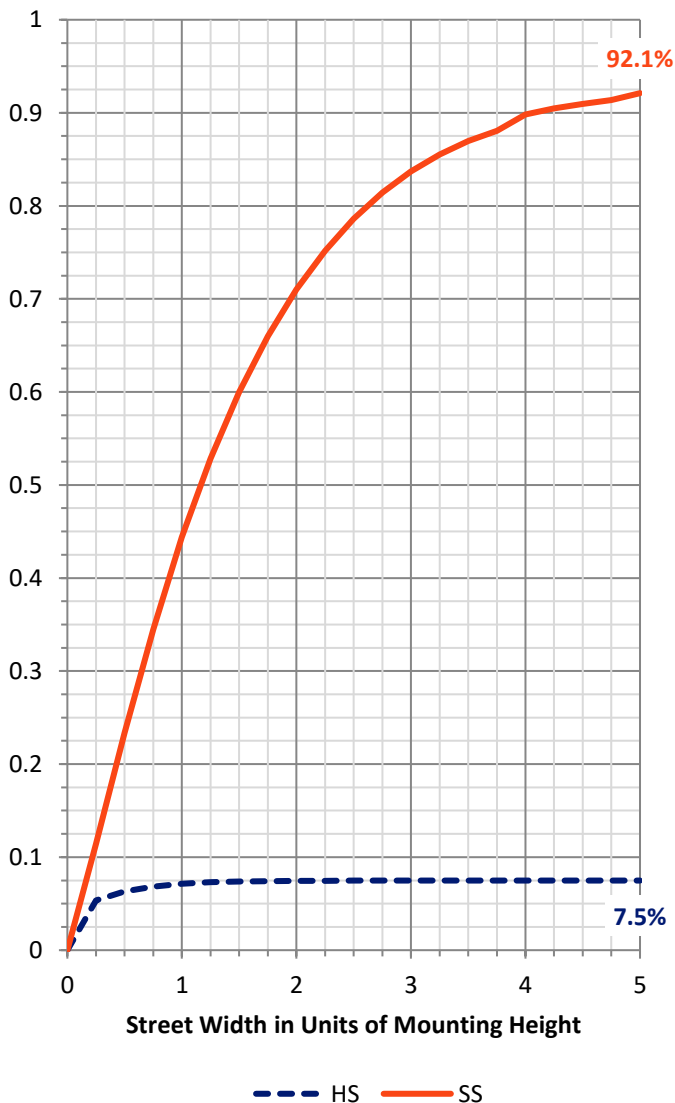
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2090.3	0.0	2090.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	25675.6	0.0	25675.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	27765.9	0.0	27765.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.1	1.5
10°-20°	994.5	3.6
20°-30°	1596.5	5.8
30°-40°	2443.9	8.8
40°-50°	3922.9	14.1
50°-60°	5762.2	20.8
60°-70°	7257.2	26.1
70°-80°	4843.3	17.4
80°-90°	541.3	1.9
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°	27765.9	100.0
0°-180°	27765.9	100.0



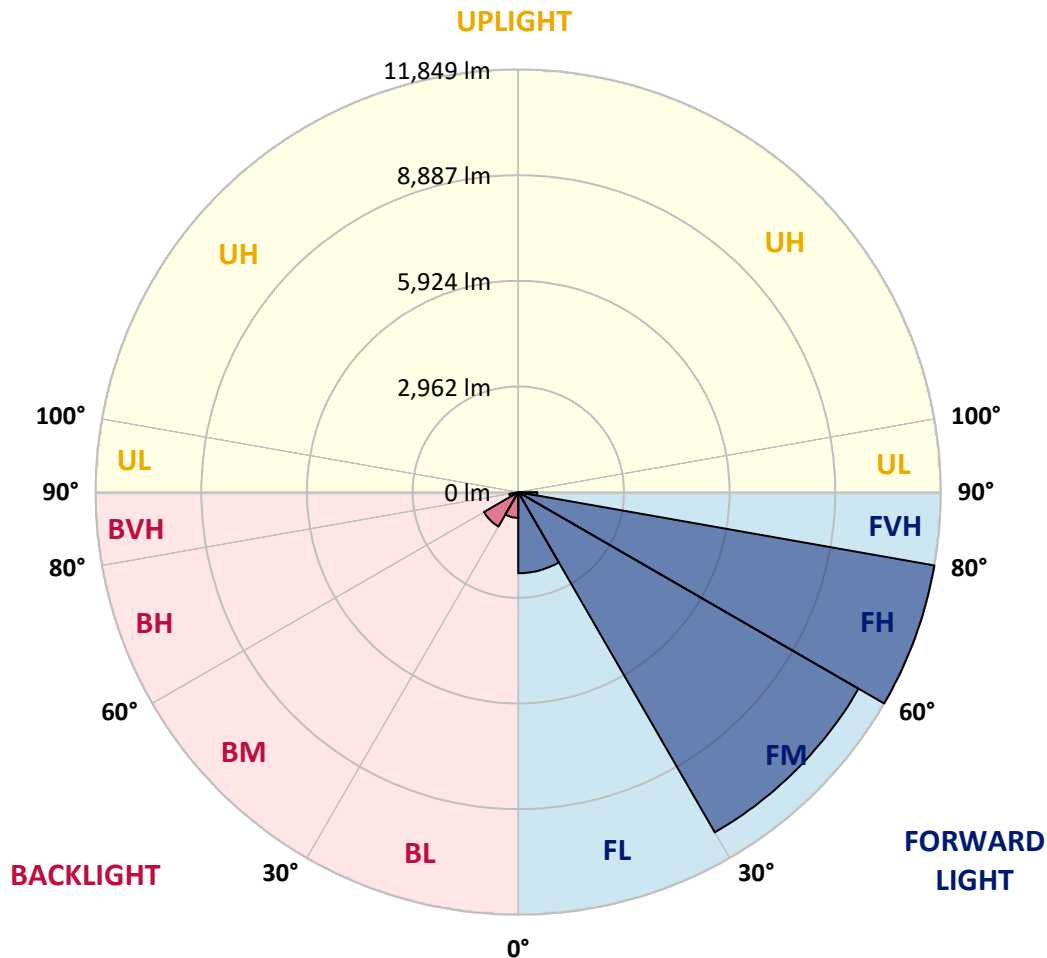
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2273.4	8.2			
FM (30°-60°)	11017.9	39.7			
FH (60°-80°)	11848.9	42.7			G4/12000
FVH (80°-90°)	535.3	1.9			G4/750
BL (0°-30°)	721.7	2.6	B2/1000		
BM (30°-60°)	1111.1	4.0	B2/2500		
BH (60°-80°)	251.6	0.9	B1/500		G1/500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8
2.5°	5208.0	5258.9	5208.0	5186.1	5164.2	5167.9	5109.6	5120.5	5051.3	4960.3	4887.5
5°	5371.8	5441.0	5386.4	5360.9	5357.3	5288.1	5258.9	5189.7	5106.0	4963.9	4876.5
7.5°	5357.3	5342.7	5368.2	5346.3	5299.0	5299.0	5266.2	5167.9	5084.1	4923.9	4774.6
10°	5248.0	5291.7	5269.9	5244.4	5255.3	5258.9	5197.0	5127.8	5102.3	4942.1	4698.1
12.5°	5237.1	5164.2	5244.4	5248.0	5200.7	5197.0	5189.7	5171.5	5091.4	4945.7	4716.3
15°	5200.7	5171.5	5251.7	5255.3	5266.2	5255.3	5266.2	5251.7	5171.5	5087.8	4796.4
17.5°	5229.8	5197.0	5309.9	5364.6	5339.1	5390.0	5371.8	5306.3	5237.1	5138.8	4872.9
20°	5237.1	5284.4	5408.3	5430.1	5510.2	5426.5	5422.8	5353.6	5309.9	5204.3	4920.2
22.5°	5371.8	5393.7	5546.7	5594.0	5597.6	5586.7	5495.7	5415.5	5397.3	5266.2	4931.2
25°	5575.8	5652.3	5721.5	5750.6	5761.5	5710.5	5615.8	5513.9	5470.2	5386.4	5044.1
27.5°	5936.3	5889.0	5950.9	5994.6	5870.8	5889.0	5768.8	5681.4	5619.5	5546.7	5175.2
30°	6256.8	6213.1	6216.8	6209.5	6103.9	6005.5	5972.8	5819.8	5743.3	5772.5	5379.1
32.5°	6544.5	6449.8	6530.0	6493.6	6296.9	6267.8	6242.3	6049.2	6063.8	6198.6	5685.0
35°	6810.4	6777.6	6843.2	6777.6	6646.5	6639.2	6613.7	6446.2	6526.3	6719.4	6209.5
37.5°	7054.4	7065.3	7145.5	7112.7	7123.6	7130.9	7116.3	6937.9	7167.3	7600.7	6821.3
40°	7280.2	7265.6	7462.3	7564.3	7586.1	7666.3	7666.3	7622.5	7975.8	8463.8	7669.9
42.5°	7520.6	7557.0	7811.9	7983.1	8190.7	8259.9	8354.6	8376.4	8922.7	9479.9	8536.7
45°	7913.9	7852.0	8176.1	8580.4	8762.5	9006.5	9152.2	9276.0	9935.2	10700.0	9403.4
47.5°	8412.8	8289.0	8573.1	9159.4	9581.9	9782.2	10044.4	10208.3	10852.9	11643.2	10222.9
50°	8966.4	8839.0	8977.3	9785.9	10277.5	10641.7	10976.8	11184.4	11963.7	12699.4	10820.2
52.5°	9592.8	9476.3	9498.1	10437.8	11162.5	11428.4	11869.0	12178.6	12954.3	13336.7	11031.4
55°	10259.3	10230.2	10161.0	11075.1	11938.2	12535.5	12801.4	13172.8	13970.4	13682.7	11260.8
57.5°	10929.4	10838.4	10936.7	11920.0	13183.8	13540.7	13908.5	14130.7	14534.9	13985.0	11173.4
60°	11559.5	11566.8	11705.1	12837.8	14243.6	14749.8	15081.2	14946.5	15114.0	14116.1	10973.1
62.5°	12091.2	12076.6	12426.2	13868.4	15645.7	15988.0	16235.7	15634.8	15383.5	14243.6	10623.5
65°	12568.3	12732.2	13282.1	15095.8	16964.1	17357.4	17208.1	16286.7	15645.7	13868.4	9640.2
67.5°	12928.8	13172.8	14127.0	16250.3	18173.2	18450.0	18242.4	16782.0	15336.1	12397.1	7852.0
70°	13140.1	13387.7	14731.6	17211.7	19138.3	19338.6	18850.6	16399.6	13529.7	8977.3	4898.4
71°	13074.5	13376.8	14848.1	17313.7	19367.8	19517.1	18759.6	15693.1	12167.7	7516.9	3572.7
72.5°	12480.9	12764.9	14363.8	17240.9	19091.0	18999.9	18049.4	13995.9	9578.3	4792.8	1846.5
75°	9170.4	9476.3	12327.9	14913.7	17040.6	16414.2	14607.8	9822.3	4996.7	1467.7	539.0
77.5°	4567.0	4618.0	7651.7	10827.4	12499.1	11876.3	9789.5	5477.5	1868.3	433.4	269.5
80°	2105.0	2119.6	2869.8	5608.6	7557.0	7112.7	5484.7	2702.3	844.9	229.4	211.2
82.5°	1434.9	1456.8	1729.9	2323.5	3281.4	2767.9	2221.6	1729.9	484.4	138.4	207.6
85°	262.2	240.4	968.8	1231.0	1267.4	859.5	768.4	1496.8	182.1	80.1	182.1
87.5°	0.0	3.6	134.8	502.6	451.6	200.3	262.2	364.2	18.2	25.5	32.8
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°	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8
2.5°	4825.5	4785.5	4650.7	4501.4	4366.7	4261.1	4126.3	4064.4	3966.1	3911.4	3907.8
5°	4756.4	4647.1	4414.0	4162.7	3882.3	3649.2	3390.6	3245.0	3077.4	3026.4	3015.5
7.5°	4639.8	4483.2	4140.9	3787.6	3357.9	2946.3	2629.5	2290.8	2083.2	1995.8	1963.0
10°	4567.0	4377.6	3911.4	3383.3	2782.4	2203.4	1759.0	1398.5	1209.1	1118.1	1096.2
12.5°	4567.0	4363.0	3725.7	2997.3	2199.7	1507.8	1088.9	881.3	819.4	797.6	797.6
15°	4556.0	4333.9	3547.2	2600.3	1627.9	1012.5	812.1	768.4	761.2	757.5	753.9
17.5°	4610.7	4282.9	3365.1	2174.2	1150.8	797.6	746.6	739.3	732.0	732.0	724.7
20°	4650.7	4253.8	3146.6	1722.6	859.5	739.3	717.5	706.5	702.9	699.2	706.5
22.5°	4618.0	4210.1	2877.1	1289.2	750.2	702.9	688.3	677.4	670.1	670.1	673.8
25°	4679.9	4170.0	2607.6	972.4	702.9	670.1	655.5	648.3	644.6	641.0	633.7
27.5°	4763.6	4188.2	2287.1	783.0	662.8	637.3	622.8	615.5	611.8	604.6	611.8
30°	4865.6	4184.6	1933.9	684.7	626.4	600.9	586.3	582.7	575.4	571.8	575.4
32.5°	5040.4	4279.3	1569.7	633.7	586.3	564.5	549.9	546.3	542.6	539.0	535.4
35°	5415.5	4395.8	1227.3	593.6	549.9	524.4	513.5	506.2	502.6	498.9	495.3
37.5°	5878.1	4654.4	936.0	557.2	513.5	488.0	477.1	473.5	458.9	455.2	451.6
40°	6457.1	4931.2	721.1	517.2	480.7	455.2	444.3	433.4	415.2	407.9	400.6
42.5°	7178.2	5200.7	593.6	480.7	444.3	426.1	407.9	389.7	375.1	360.6	353.3
45°	7899.3	5513.9	520.8	448.0	415.2	393.3	378.8	353.3	327.8	305.9	302.3
47.5°	8500.3	5626.8	477.1	411.5	386.0	367.8	346.0	313.2	276.8	254.9	251.3
50°	8948.2	5561.2	433.4	375.1	353.3	335.1	305.9	265.9	229.4	207.6	200.3
52.5°	9035.6	5273.5	393.3	346.0	320.5	298.6	265.9	222.2	182.1	160.2	156.6
55°	8973.7	4796.4	360.6	320.5	291.4	258.6	222.2	178.5	142.0	120.2	116.5
57.5°	8846.2	4231.9	324.1	287.7	254.9	222.2	182.1	145.7	105.6	83.8	83.8
60°	8412.8	3463.5	287.7	251.3	218.5	189.4	149.3	105.6	72.8	54.6	51.0
62.5°	7808.3	2662.2	251.3	214.9	189.4	156.6	116.5	76.5	43.7	29.1	29.1
65°	6704.8	1864.7	211.2	178.5	156.6	127.5	87.4	47.3	25.5	10.9	10.9
67.5°	5095.1	1154.5	174.8	149.3	134.8	102.0	61.9	29.1	10.9	3.6	0.0
70°	2924.5	600.9	138.4	120.2	105.6	76.5	43.7	14.6	7.3	0.0	0.0
71°	2043.1	444.3	123.8	105.6	94.7	69.2	36.4	10.9	3.6	0.0	0.0
72.5°	1023.4	295.0	105.6	87.4	76.5	54.6	29.1	10.9	3.6	0.0	0.0
75°	364.2	189.4	72.8	58.3	54.6	40.1	18.2	7.3	3.6	0.0	0.0
77.5°	251.3	153.0	51.0	36.4	36.4	25.5	10.9	3.6	3.6	0.0	0.0
80°	229.4	83.8	32.8	21.9	18.2	14.6	7.3	3.6	0.0	0.0	0.0
82.5°	229.4	61.9	18.2	14.6	10.9	7.3	3.6	0.0	0.0	0.0	0.0
85°	160.2	32.8	10.9	10.9	7.3	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	25.5	10.9	7.3	3.6	3.6	0.0	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)