

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: P484735

Luminaire Tested: **IFLD-L-SA7C-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484735
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

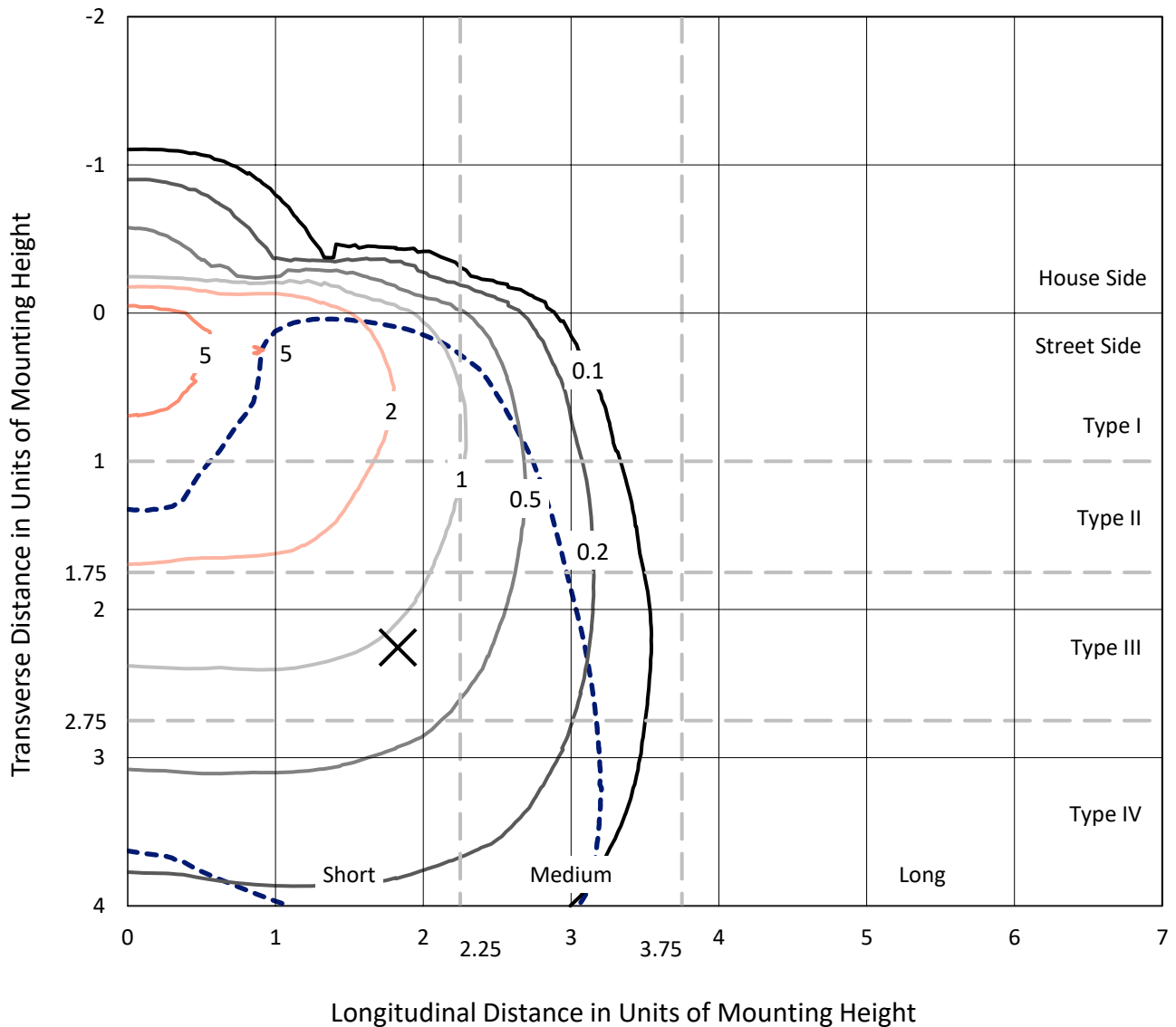
Lumens per Lamp: N/A
Luminaire Lumens: 33348.4 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 369
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

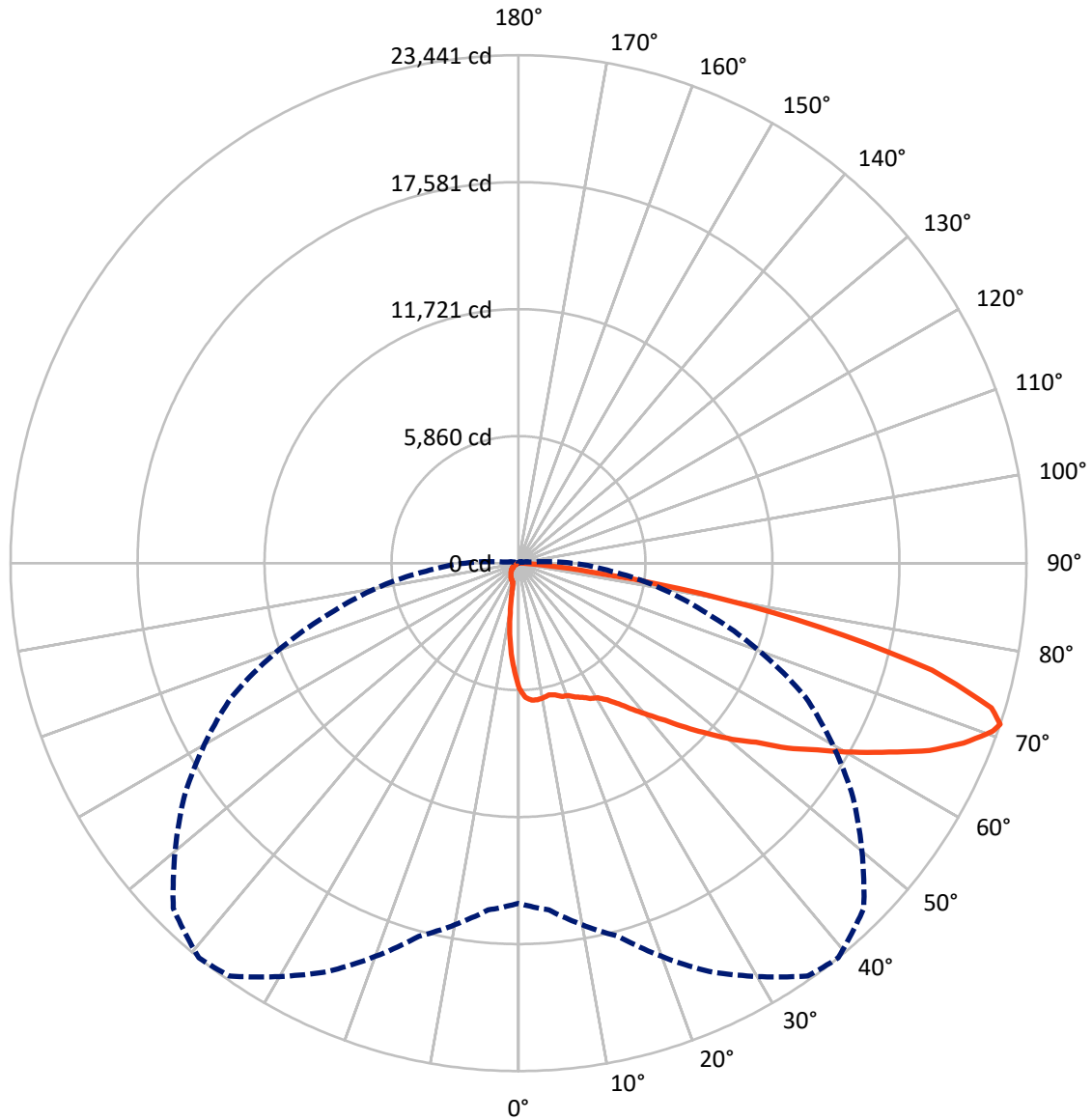
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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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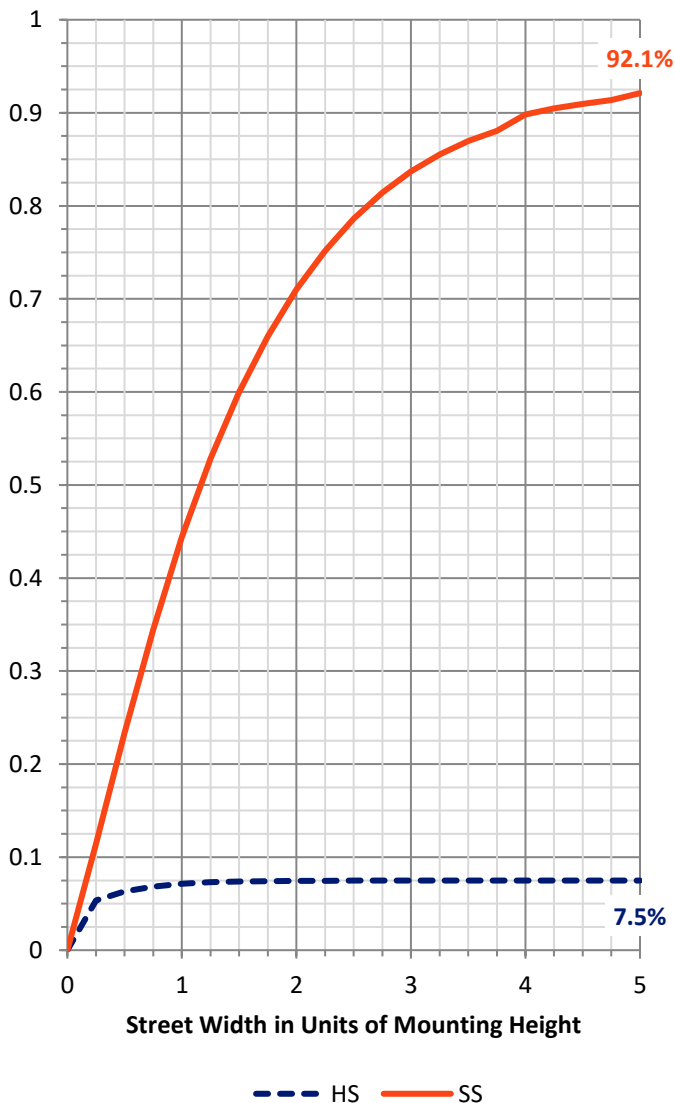
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2510.6	0.0	2510.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	30837.8	0.0	30837.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	33348.4	0.0	33348.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.3	1.5
10°-20°	1194.5	3.6
20°-30°	1917.5	5.8
30°-40°	2935.3	8.8
40°-50°	4711.7	14.1
50°-60°	6920.7	20.8
60°-70°	8716.3	26.1
70°-80°	5817.1	17.4
80°-90°	650.1	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°	33348.4	100.0
0°-180°	33348.4	100.0



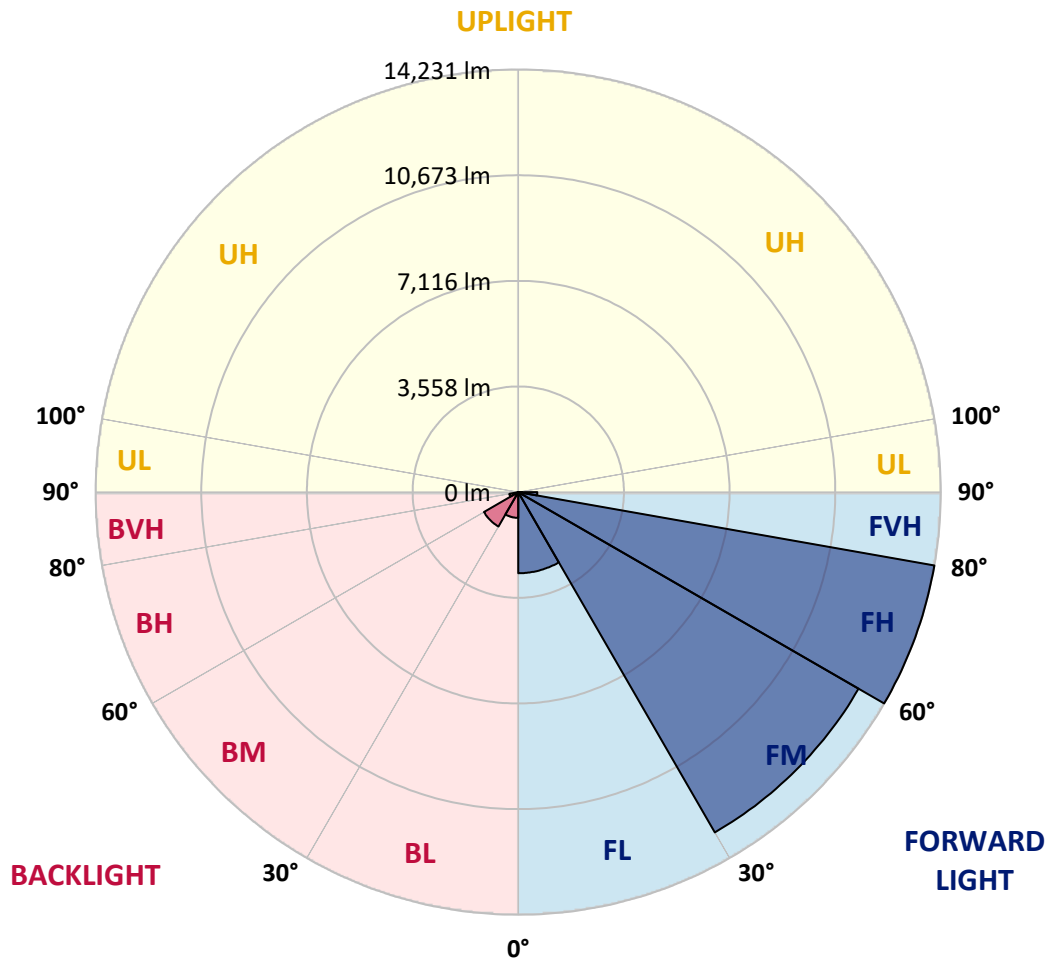
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2730.5	8.2			
FM (30°-60°)	13233.2	39.7			
FH (60°-80°)	14231.2	42.7			G5
FVH (80°-90°)	642.9	1.9			G4/750
BL (0°-30°)	866.8	2.6	B2/1000		
BM (30°-60°)	1334.5	4.0	B2/2500		
BH (60°-80°)	302.2	0.9	B1/500		G1/500
BVH (80°-90°)	7.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5804.5	5804.5	5804.5	5804.5	5804.5	5804.5	5804.5	5804.5	5804.5	5804.5	5804.5
2.5°	6255.0	6316.3	6255.0	6228.8	6202.6	6206.9	6136.9	6150.1	6067.0	5957.6	5870.1
5°	6451.9	6535.0	6469.4	6438.8	6434.4	6351.3	6316.3	6233.2	6132.6	5962.0	5857.0
7.5°	6434.4	6416.9	6447.5	6421.3	6364.4	6364.4	6325.0	6206.9	6106.3	5913.9	5734.5
10°	6303.2	6355.7	6329.4	6298.8	6311.9	6316.3	6241.9	6158.8	6128.2	5935.7	5642.7
12.5°	6290.0	6202.6	6298.8	6303.2	6246.3	6241.9	6233.2	6211.3	6115.1	5940.1	5664.5
15°	6246.3	6211.3	6307.5	6311.9	6325.0	6311.9	6325.0	6307.5	6211.3	6110.7	5760.8
17.5°	6281.3	6241.9	6377.5	6443.1	6412.5	6473.8	6451.9	6373.2	6290.0	6171.9	5852.6
20°	6290.0	6346.9	6495.6	6521.9	6618.1	6517.5	6513.1	6430.0	6377.5	6250.7	5909.5
22.5°	6451.9	6478.1	6661.8	6718.7	6723.1	6710.0	6600.6	6504.4	6482.5	6325.0	5922.6
25°	6696.8	6788.7	6871.8	6906.8	6919.9	6858.7	6745.0	6622.5	6570.0	6469.4	6058.2
27.5°	7129.9	7073.0	7147.4	7199.9	7051.1	7073.0	6928.7	6823.7	6749.3	6661.8	6215.7
30°	7514.8	7462.3	7466.7	7457.9	7331.1	7213.0	7173.6	6989.9	6898.0	6933.0	6460.6
32.5°	7860.4	7746.6	7842.9	7799.1	7562.9	7527.9	7497.3	7265.5	7283.0	7444.8	6828.1
35°	8179.7	8140.3	8219.0	8140.3	7982.8	7974.1	7943.5	7742.3	7838.5	8070.3	7457.9
37.5°	8472.7	8485.9	8582.1	8542.7	8555.9	8564.6	8547.1	8332.8	8608.3	9128.9	8192.8
40°	8743.9	8726.4	8962.7	9085.1	9111.4	9207.6	9207.6	9155.1	9579.4	10165.5	9212.0
42.5°	9032.6	9076.4	9382.6	9588.2	9837.5	9920.6	10034.3	10060.6	10716.7	11385.9	10253.0
45°	9505.0	9430.7	9820.0	10305.5	10524.2	10817.3	10992.3	11141.0	11932.7	12851.3	11294.1
47.5°	10104.3	9955.6	10296.8	11001.0	11508.4	11749.0	12063.9	12260.8	13035.0	13984.2	12278.3
50°	10769.2	10616.1	10782.3	11753.4	12343.9	12781.3	13183.7	13433.0	14369.1	15252.7	12995.6
52.5°	11521.5	11381.6	11407.8	12536.3	13406.8	13726.1	14255.4	14627.2	15558.9	16018.2	13249.3
55°	12322.0	12287.0	12203.9	13301.8	14338.5	15055.9	15375.2	15821.3	16779.3	16433.7	13524.9
57.5°	13126.9	13017.5	13135.6	14316.6	15834.5	16263.1	16704.9	16971.7	17457.3	16796.8	13419.9
60°	13883.6	13892.3	14058.5	15418.9	17107.3	17715.3	18113.4	17951.5	18152.8	16954.2	13179.3
62.5°	14522.2	14504.7	14924.6	16656.8	18791.4	19202.6	19500.0	18778.3	18476.4	17107.3	12759.4
65°	15095.2	15292.1	15952.6	18130.9	20374.8	20847.2	20667.9	19561.2	18791.4	16656.8	11578.4
67.5°	15528.3	15821.3	16967.4	19517.5	21827.1	22159.5	21910.2	20156.1	18419.6	14889.6	9430.7
70°	15782.0	16079.4	17693.5	20672.3	22986.2	23226.8	22640.6	19696.8	16250.0	10782.3	5883.2
71°	15703.2	16066.3	17833.4	20794.8	23261.8	23441.1	22531.3	18848.3	14614.1	9028.3	4291.1
72.5°	14990.2	15331.4	17251.7	20707.3	22929.3	22820.0	21678.3	16809.9	11504.0	5756.4	2217.7
75°	11014.1	11381.6	14806.5	17912.2	20466.7	19714.3	17544.8	11797.1	6001.3	1762.8	647.4
77.5°	5485.2	5546.4	9190.1	13004.4	15012.1	14264.1	11757.7	6578.7	2243.9	520.5	323.7
80°	2528.3	2545.8	3446.8	6736.2	9076.4	8542.7	6587.5	3245.6	1014.8	275.6	253.7
82.5°	1723.4	1749.7	2077.7	2790.7	3941.1	3324.4	2668.2	2077.7	581.8	166.2	249.3
85°	314.9	288.7	1163.5	1478.5	1522.2	1032.3	922.9	1797.8	218.7	96.2	218.7
87.5°	0.0	4.4	161.8	603.6	542.4	240.6	314.9	437.4	21.9	30.6	39.4
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°	5804.5	5804.5	5804.5	5804.5	5804.5	5804.5	5804.5	5804.5	5804.5	5804.5	5804.5
2.5°	5795.8	5747.6	5585.8	5406.5	5244.6	5117.8	4955.9	4881.6	4763.5	4697.8	4693.5
5°	5712.7	5581.4	5301.5	4999.7	4662.9	4382.9	4072.3	3897.4	3696.2	3634.9	3621.8
7.5°	5572.7	5384.6	4973.4	4549.1	4033.0	3538.7	3158.1	2751.3	2502.0	2397.0	2357.7
10°	5485.2	5257.7	4697.8	4063.6	3341.9	2646.4	2112.7	1679.7	1452.2	1342.9	1316.6
12.5°	5485.2	5240.2	4474.8	3599.9	2642.0	1810.9	1307.9	1058.5	984.2	957.9	957.9
15°	5472.1	5205.2	4260.4	3123.1	1955.2	1216.0	975.4	922.9	914.2	909.8	905.5
17.5°	5537.7	5144.0	4041.7	2611.4	1382.2	957.9	896.7	888.0	879.2	879.2	870.5
20°	5585.8	5109.0	3779.3	2069.0	1032.3	888.0	861.7	848.6	844.2	839.8	848.6
22.5°	5546.4	5056.5	3455.6	1548.5	901.1	844.2	826.7	813.6	804.8	804.8	809.2
25°	5620.8	5008.4	3131.9	1167.9	844.2	804.8	787.3	778.6	774.2	769.9	761.1
27.5°	5721.4	5030.3	2747.0	940.4	796.1	765.5	748.0	739.2	734.9	726.1	734.9
30°	5843.9	5025.9	2322.7	822.3	752.4	721.7	704.2	699.9	691.1	686.7	691.1
32.5°	6053.8	5139.6	1885.3	761.1	704.2	678.0	660.5	656.1	651.7	647.4	643.0
35°	6504.4	5279.6	1474.1	713.0	660.5	629.9	616.8	608.0	603.6	599.3	594.9
37.5°	7059.9	5590.2	1124.2	669.2	616.8	586.1	573.0	568.6	551.1	546.8	542.4
40°	7755.4	5922.6	866.1	621.1	577.4	546.8	533.6	520.5	498.7	489.9	481.2
42.5°	8621.5	6246.3	713.0	577.4	533.6	511.8	489.9	468.0	450.5	433.0	424.3
45°	9487.6	6622.5	625.5	538.0	498.7	472.4	454.9	424.3	393.7	367.4	363.1
47.5°	10209.3	6758.1	573.0	494.3	463.7	441.8	415.5	376.2	332.4	306.2	301.8
50°	10747.3	6679.3	520.5	450.5	424.3	402.4	367.4	319.3	275.6	249.3	240.6
52.5°	10852.3	6333.8	472.4	415.5	384.9	358.7	319.3	266.8	218.7	192.5	188.1
55°	10777.9	5760.8	433.0	384.9	349.9	310.6	266.8	214.3	170.6	144.3	140.0
57.5°	10624.8	5082.8	389.3	345.6	306.2	266.8	218.7	175.0	126.9	100.6	100.6
60°	10104.3	4159.8	345.6	301.8	262.4	227.5	179.3	126.9	87.5	65.6	61.2
62.5°	9378.2	3197.5	301.8	258.1	227.5	188.1	140.0	91.9	52.5	35.0	35.0
65°	8052.8	2239.6	253.7	214.3	188.1	153.1	105.0	56.9	30.6	13.1	13.1
67.5°	6119.4	1386.6	210.0	179.3	161.8	122.5	74.4	35.0	13.1	4.4	0.0
70°	3512.4	721.7	166.2	144.3	126.9	91.9	52.5	17.5	8.7	0.0	0.0
71°	2453.9	533.6	148.7	126.9	113.7	83.1	43.7	13.1	4.4	0.0	0.0
72.5°	1229.1	354.3	126.9	105.0	91.9	65.6	35.0	13.1	4.4	0.0	0.0
75°	437.4	227.5	87.5	70.0	65.6	48.1	21.9	8.7	4.4	0.0	0.0
77.5°	301.8	183.7	61.2	43.7	43.7	30.6	13.1	4.4	4.4	0.0	0.0
80°	275.6	100.6	39.4	26.2	21.9	17.5	8.7	4.4	0.0	0.0	0.0
82.5°	275.6	74.4	21.9	17.5	13.1	8.7	4.4	0.0	0.0	0.0	0.0
85°	192.5	39.4	13.1	13.1	8.7	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	30.6	13.1	8.7	4.4	4.4	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)