

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: P483763

Luminaire Tested: **IFLD-L-SA8A-827-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483763
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

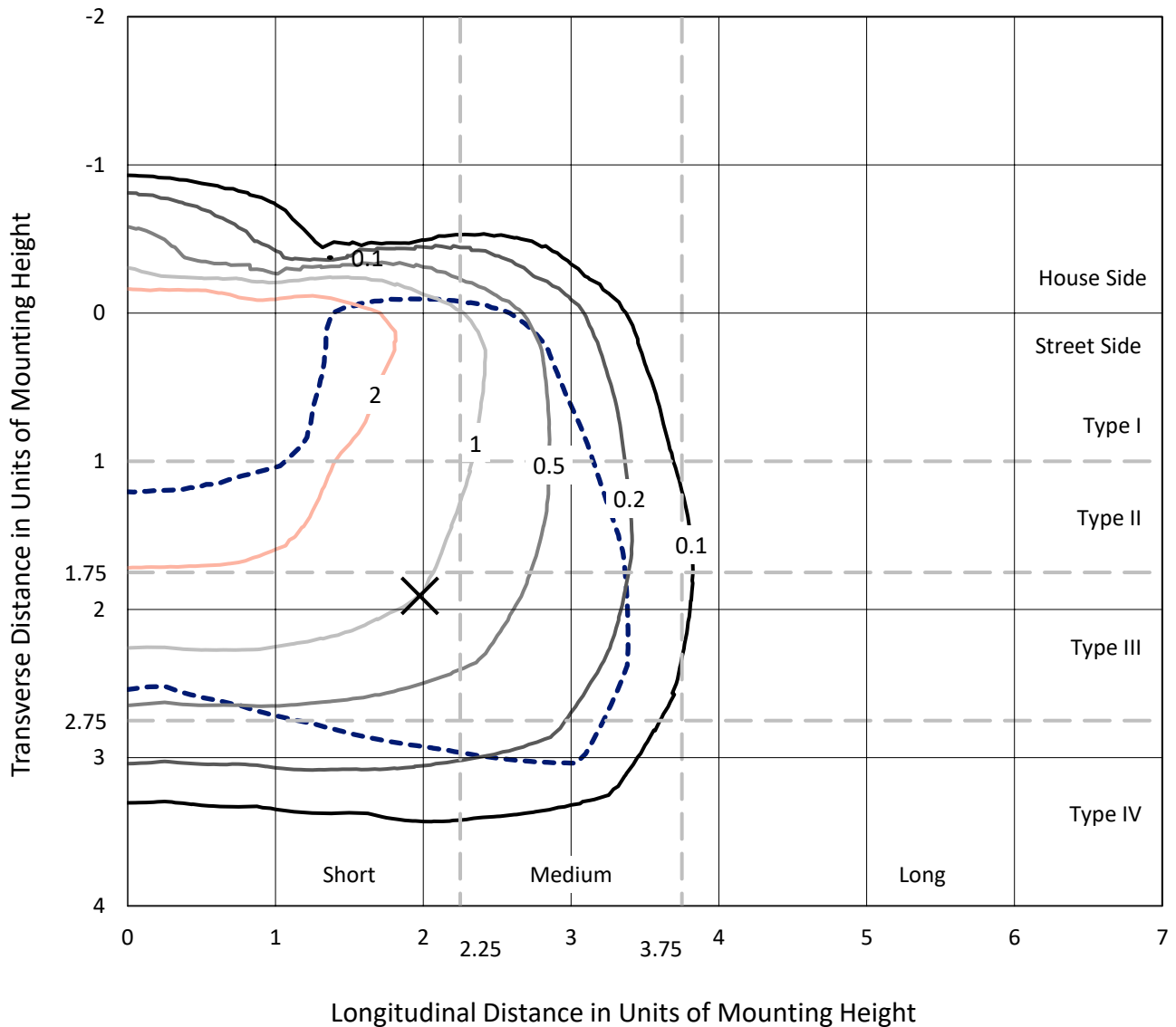
Lumens per Lamp: N/A
Luminaire Lumens: 18580 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 247.8
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

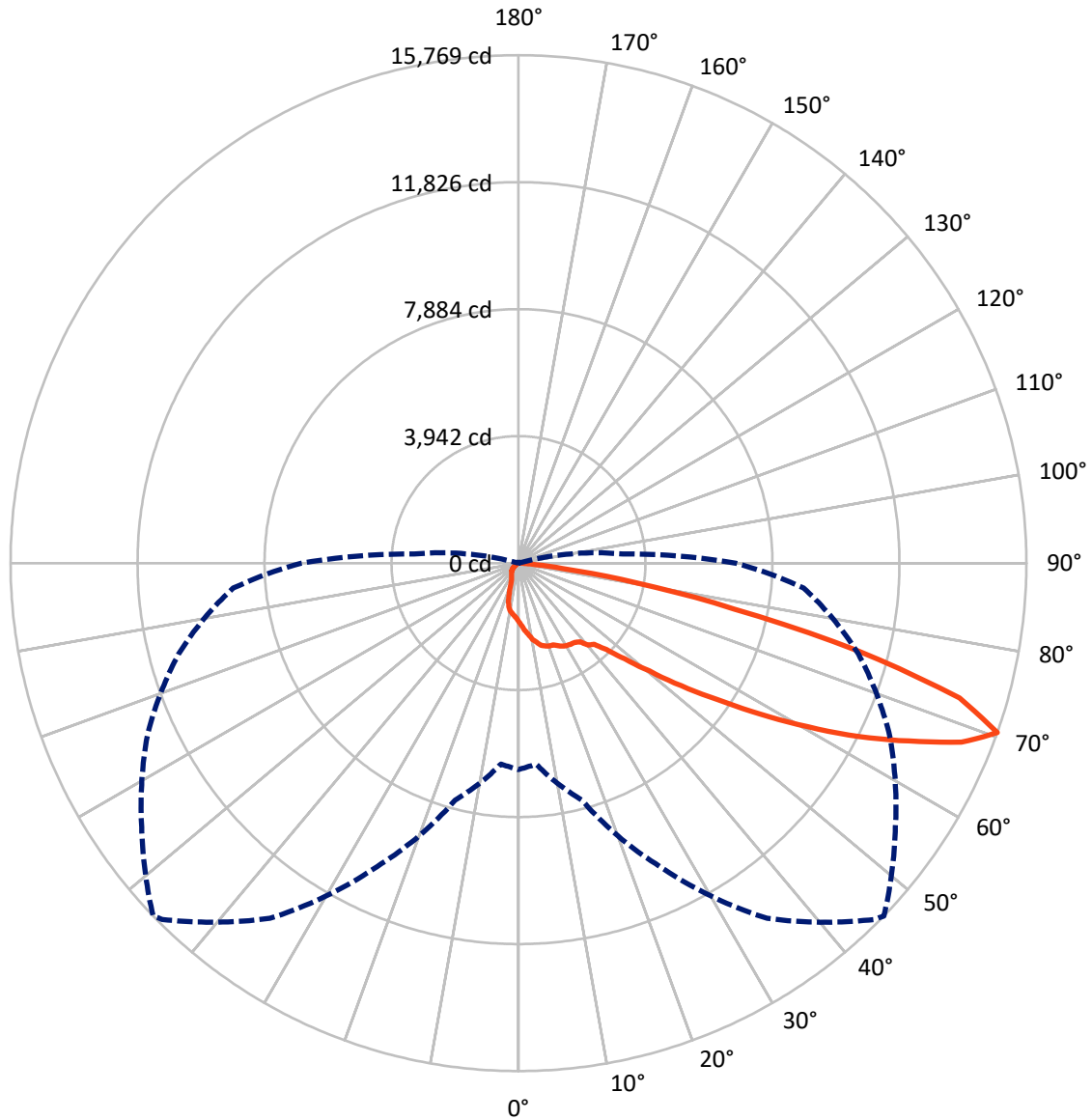
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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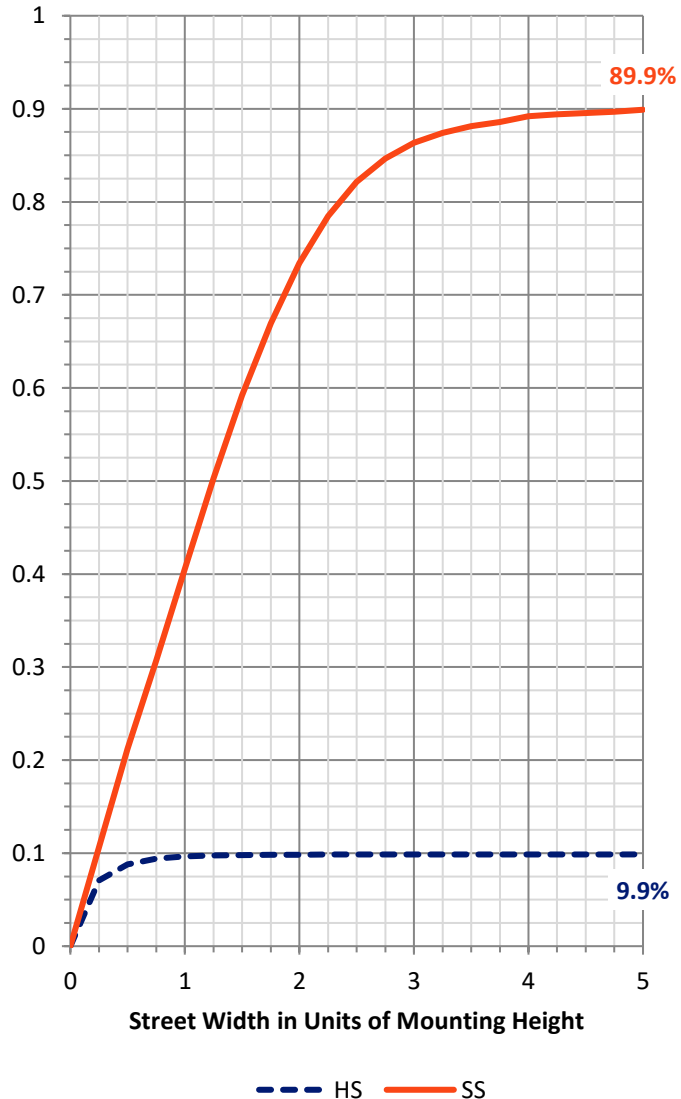
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1848.8	0.0	1848.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	16731.2	0.0	16731.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	18580.0	0.0	18580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.9	1.0
10°-20°	549.2	3.0
20°-30°	879.8	4.7
30°-40°	1255.7	6.8
40°-50°	2168.3	11.7
50°-60°	4151.4	22.3
60°-70°	6147.6	33.1
70°-80°	3044.8	16.4
80°-90°	201.2	1.1
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°	18580.0	100.0
0°-180°	18580.0	100.0

Coefficient of Utilization

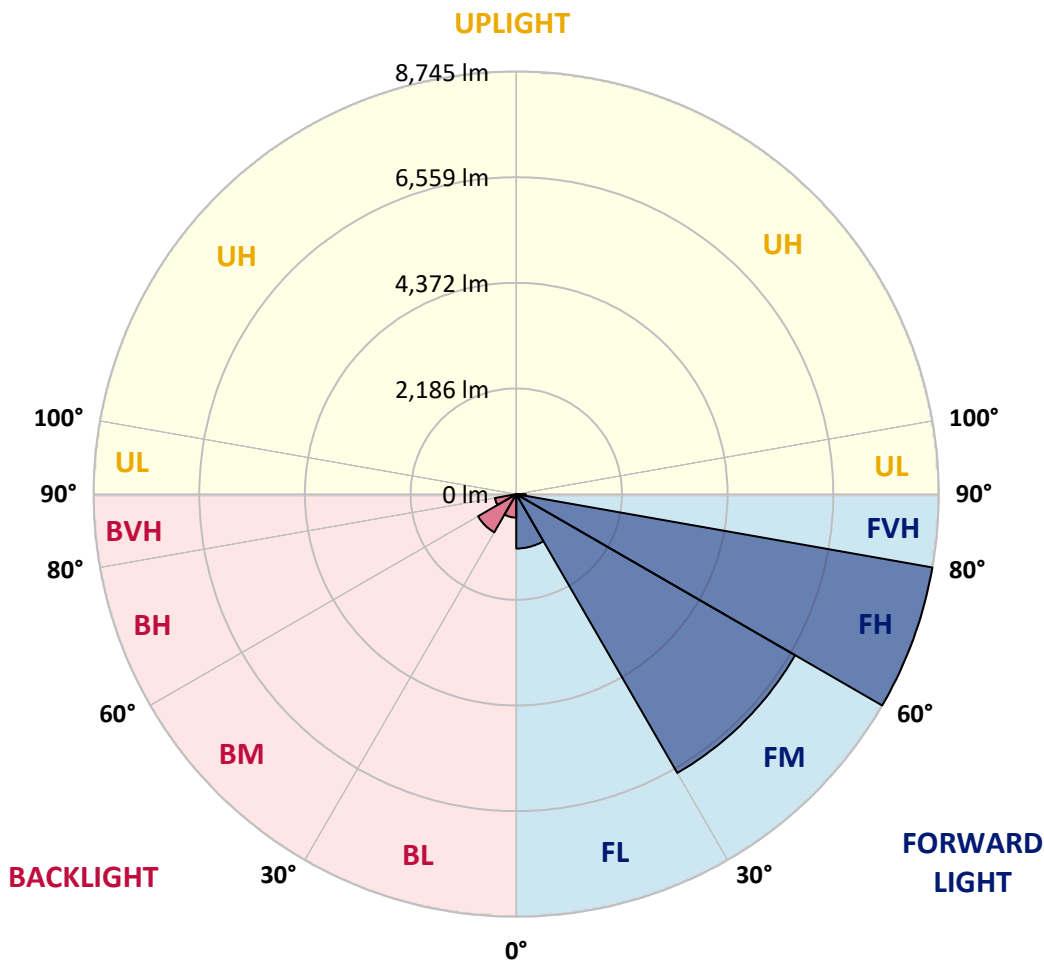


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1125.2	6.1			
FM (30°-60°)	6662.7	35.9			
FH (60°-80°)	8744.7	47.1			G4/12000
FVH (80°-90°)	198.6	1.1			G2/225
BL (0°-30°)	485.7	2.6	B1/500		
BM (30°-60°)	912.7	4.9	B1/1000		
BH (60°-80°)	447.8	2.4	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0
2.5°	2035.3	2021.9	2000.5	1992.5	1971.1	1960.4	1944.3	1936.3	1906.9	1877.5	1858.7
5°	2284.0	2251.9	2262.6	2230.5	2161.0	2104.8	2102.1	2040.6	1973.7	1920.3	1848.0
7.5°	2535.4	2508.6	2468.5	2423.1	2345.5	2262.6	2238.5	2179.7	2086.1	1992.5	1896.2
10°	2725.3	2706.5	2671.8	2607.6	2500.6	2407.0	2409.7	2310.7	2211.8	2104.8	1973.7
12.5°	2842.9	2851.0	2800.2	2736.0	2642.4	2524.7	2522.0	2455.1	2342.8	2230.5	2075.4
15°	2960.6	2990.0	2912.5	2837.6	2717.2	2631.7	2647.7	2567.5	2457.8	2329.4	2158.3
17.5°	2979.3	2987.4	2971.3	2861.7	2773.4	2701.2	2703.9	2650.4	2567.5	2428.4	2281.3
20°	2947.2	2941.9	2923.2	2842.9	2784.1	2741.3	2744.0	2730.6	2685.2	2572.8	2372.2
22.5°	2853.6	2853.6	2829.6	2776.1	2749.3	2789.5	2757.4	2808.2	2760.0	2693.2	2527.4
25°	2778.8	2808.2	2794.8	2760.0	2770.7	2824.2	2840.3	2888.4	2880.4	2797.5	2634.3
27.5°	2859.0	2824.2	2832.2	2792.1	2832.2	2912.5	2920.5	2955.3	2952.6	2885.7	2730.6
30°	2912.5	2944.6	2883.1	2794.8	2837.6	2974.0	2968.6	3014.1	3035.5	2955.3	2821.5
32.5°	3083.6	3056.9	3006.1	2888.4	2893.8	2971.3	2995.4	3054.2	3067.6	3019.5	2909.8
35°	3434.0	3393.9	3171.9	2995.4	2968.6	3006.1	3022.1	3137.1	3161.2	3107.7	3003.4
37.5°	3974.2	3883.3	3615.9	3225.4	3105.0	3097.0	3097.0	3249.5	3340.4	3217.4	3142.5
40°	4747.2	4618.8	4329.9	3650.6	3284.2	3316.3	3348.4	3431.3	3420.6	3340.4	3324.3
42.5°	5731.4	5632.4	5319.5	4364.7	3626.6	3466.1	3439.3	3551.7	3720.2	3688.1	3677.4
45°	6552.4	6557.8	6357.2	5343.6	4217.6	3811.1	3829.8	3915.4	4198.9	4174.8	4172.1
47.5°	7151.5	7076.6	7047.2	6287.6	5078.8	4466.3	4439.6	4498.4	4867.5	5019.9	5089.5
50°	7697.1	7646.3	7576.7	7205.0	6113.8	5287.4	5260.7	5266.0	5830.3	6044.3	6215.4
52.5°	8373.7	8437.9	8207.9	7980.6	7453.7	6354.5	6325.1	6220.8	6921.5	7215.7	7418.9
55°	9208.1	9087.8	8828.4	8946.0	8734.8	7507.2	7453.7	7330.7	8165.1	8288.1	8502.1
57.5°	9392.7	9301.8	9569.2	9986.4	10189.7	8860.5	8839.1	8617.1	9210.8	9098.5	9702.9
60°	9852.7	9876.8	10248.5	11077.6	11430.6	10422.3	10318.0	9927.6	10224.4	10245.8	10890.4
62.5°	10326.1	10269.9	11101.7	11898.6	12441.6	11901.3	11866.6	11091.0	11427.9	11155.1	12008.3
65°	9978.4	10064.0	11254.1	12588.7	13752.0	13348.2	13318.8	12211.6	12396.1	12056.4	12463.0
67.5°	8742.8	8569.0	10235.1	12273.1	14426.0	14864.6	14832.5	13433.8	12941.7	12051.1	11518.9
70°	6408.0	6258.2	7616.8	10392.9	13460.5	15640.2	15768.6	14284.3	12719.7	10927.8	8887.2
72.5°	3139.8	3142.5	4268.4	7047.2	10649.7	14254.8	14319.0	13096.8	10927.8	8055.5	5033.3
75°	928.0	938.7	1580.6	3455.4	6884.0	10826.2	10898.4	9940.9	7574.1	4161.5	1717.0
77.5°	339.7	339.7	524.2	1297.1	3434.0	6833.2	6827.9	6103.1	3835.2	1409.4	401.2
80°	176.5	184.5	272.8	529.5	1487.0	3559.7	3693.4	2987.4	1457.6	593.7	117.7
82.5°	72.2	80.2	149.8	272.8	714.1	1249.0	1366.6	1171.4	633.8	414.5	53.5
85°	21.4	24.1	72.2	152.4	280.8	312.9	347.7	393.1	398.5	320.9	24.1
87.5°	2.7	2.7	29.4	50.8	61.5	66.9	77.6	77.6	203.3	224.7	13.4
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°	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0
2.5°	1837.3	1824.0	1802.6	1754.4	1743.7	1709.0	1706.3	1674.2	1684.9	1663.5	1655.5
5°	1824.0	1794.6	1735.7	1698.3	1660.8	1636.8	1620.7	1607.3	1604.7	1594.0	1588.6
7.5°	1848.0	1807.9	1717.0	1658.2	1594.0	1572.6	1537.8	1535.1	1516.4	1497.7	1497.7
10°	1928.3	1856.1	1757.1	1658.2	1575.3	1505.7	1425.5	1366.6	1345.3	1297.1	1302.5
12.5°	1992.5	1928.3	1783.9	1682.2	1556.5	1398.7	1222.2	1085.8	1021.6	960.1	984.2
15°	2083.4	1989.8	1834.7	1687.6	1484.3	1211.5	922.7	770.2	711.4	698.0	695.4
17.5°	2182.4	2083.4	1898.9	1674.2	1337.2	936.1	679.3	591.1	601.8	617.8	615.1
20°	2292.0	2171.7	1947.0	1628.7	1104.5	679.3	556.3	553.6	569.7	593.7	599.1
22.5°	2407.0	2302.7	2005.8	1492.3	823.7	545.6	534.9	534.9	545.6	575.0	569.7
25°	2535.4	2396.3	2035.3	1281.1	591.1	502.8	508.1	518.8	524.2	548.3	550.9
27.5°	2634.3	2500.6	2043.3	1027.0	481.4	465.4	478.7	492.1	500.1	518.8	526.9
30°	2725.3	2631.7	2000.5	764.9	441.3	433.3	438.6	457.3	473.4	489.4	489.4
32.5°	2840.3	2706.5	1901.5	542.9	417.2	403.8	401.2	409.2	427.9	446.6	446.6
35°	2957.9	2832.2	1743.7	435.9	395.8	377.1	366.4	358.4	366.4	379.8	390.5
37.5°	3129.1	3022.1	1545.8	401.2	379.8	353.0	331.6	312.9	299.5	296.9	304.9
40°	3372.5	3236.1	1291.8	377.1	361.1	329.0	296.9	264.8	235.4	216.6	219.3
42.5°	3741.6	3551.7	1016.3	363.7	347.7	302.2	256.7	211.3	173.8	155.1	155.1
45°	4268.4	3968.9	746.2	350.4	331.6	270.1	211.3	157.8	120.4	109.7	112.3
47.5°	5062.7	4471.7	534.9	329.0	310.2	235.4	165.8	112.3	88.3	82.9	85.6
50°	6100.4	5068.1	417.2	304.9	283.5	197.9	123.0	82.9	69.5	66.9	69.5
52.5°	7188.9	5669.8	366.4	283.5	243.4	157.8	90.9	66.9	58.8	56.2	58.8
55°	8119.6	6057.6	318.3	251.4	195.2	117.7	72.2	58.8	50.8	42.8	42.8
57.5°	9061.0	6252.9	251.4	208.6	144.4	88.3	61.5	50.8	42.8	34.8	32.1
60°	9825.9	6391.9	179.2	155.1	101.6	69.5	53.5	45.5	34.8	26.7	24.1
62.5°	10328.7	5993.5	131.0	117.7	74.9	58.8	45.5	37.4	26.7	18.7	18.7
65°	10080.0	5442.5	101.6	82.9	56.2	45.5	37.4	26.7	18.7	10.7	8.0
67.5°	9045.0	4434.2	82.9	61.5	42.8	34.8	29.4	21.4	10.7	2.7	2.7
70°	6747.6	3249.5	66.9	45.5	34.8	26.7	21.4	13.4	5.3	2.7	0.0
72.5°	3690.7	1778.5	53.5	37.4	26.7	21.4	16.0	10.7	5.3	0.0	0.0
75°	1219.6	473.4	40.1	26.7	16.0	13.4	10.7	8.0	2.7	0.0	0.0
77.5°	294.2	123.0	32.1	24.1	13.4	8.0	5.3	2.7	2.7	0.0	0.0
80°	90.9	50.8	24.1	16.0	10.7	8.0	2.7	0.0	0.0	0.0	0.0
82.5°	37.4	24.1	10.7	10.7	8.0	2.7	0.0	0.0	0.0	0.0	0.0
85°	18.7	13.4	8.0	5.3	5.3	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	5.3	2.7	2.7	0.0	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)