

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: P483658

Luminaire Tested: **IFLD-S-SA3D-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483658
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

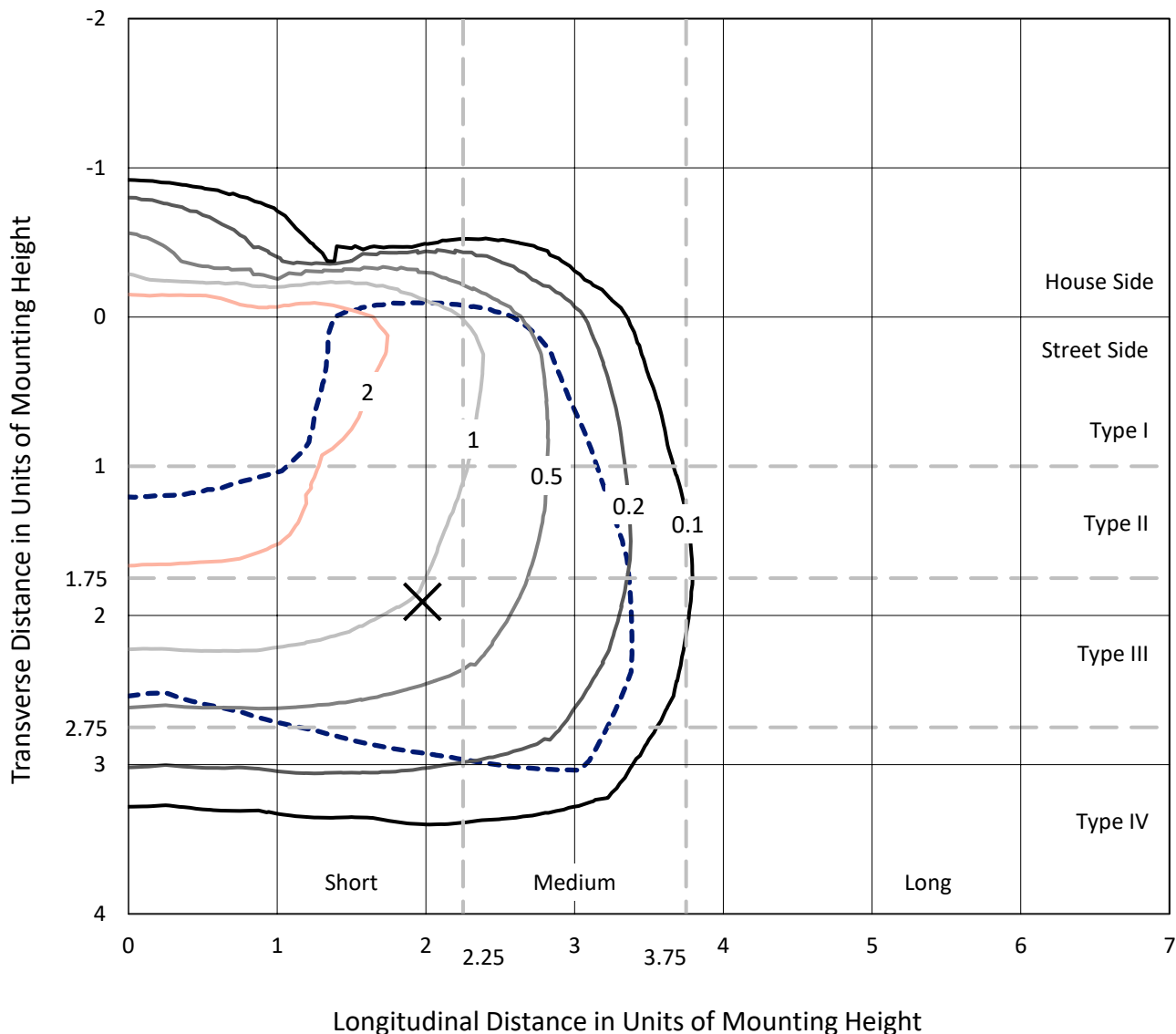
Lumens per Lamp: N/A
Luminaire Lumens: 17590.5 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 184.1
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

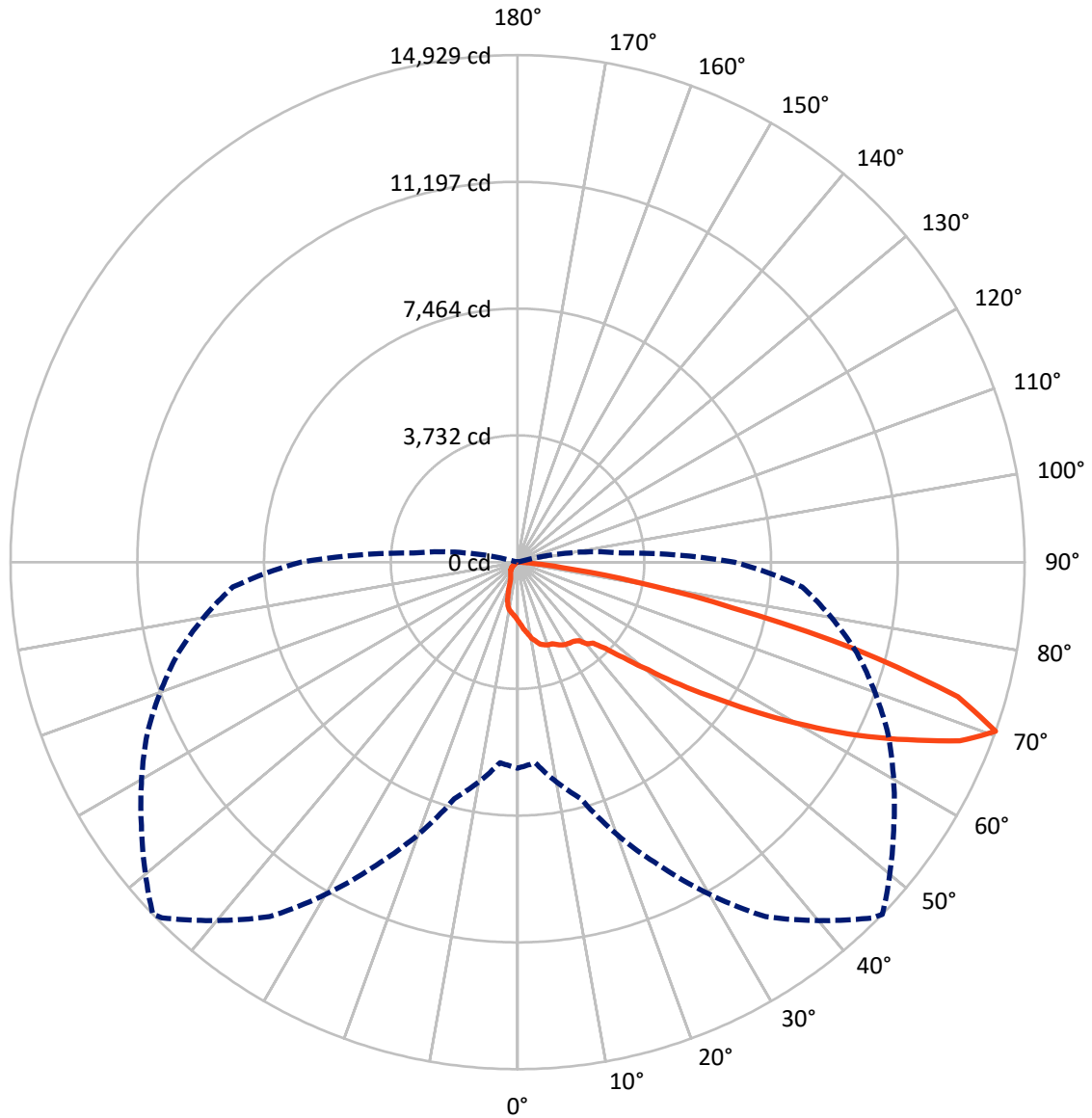
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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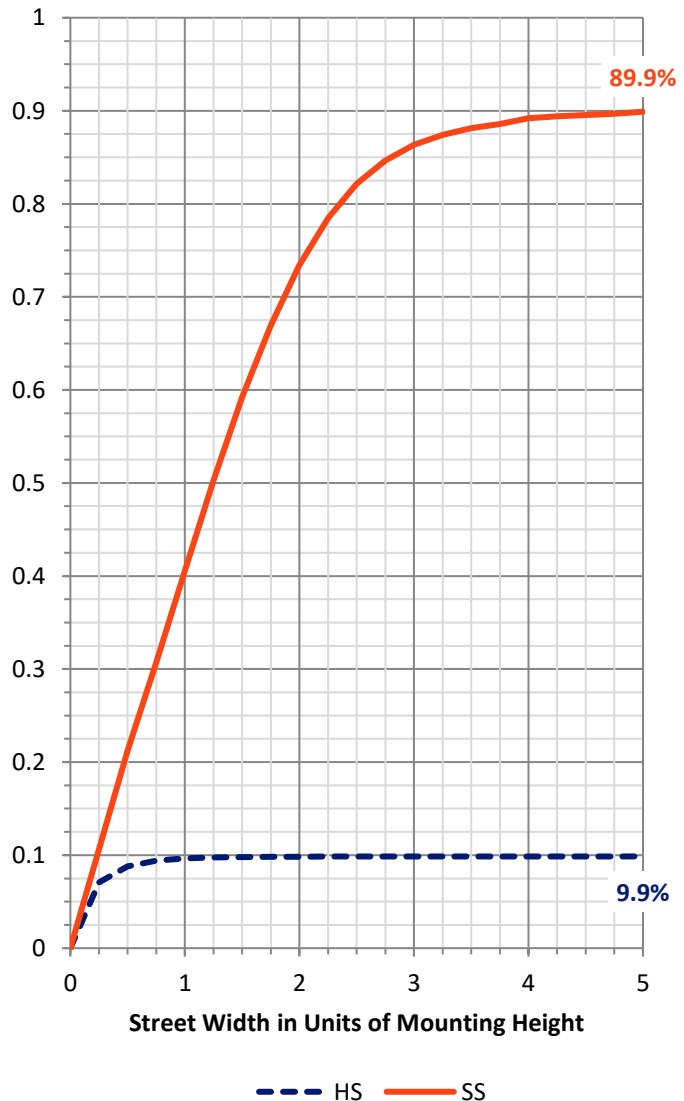
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1750.3	0.0	1750.3
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	15840.2	0.0	15840.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	17590.5	0.0	17590.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	1.0
10°-20°	520.0	3.0
20°-30°	832.9	4.7
30°-40°	1188.9	6.8
40°-50°	2052.8	11.7
50°-60°	3930.4	22.3
60°-70°	5820.2	33.1
70°-80°	2882.7	16.4
80°-90°	190.5	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°	17590.5	100.0
0°-180°	17590.5	100.0

Coefficient of Utilization



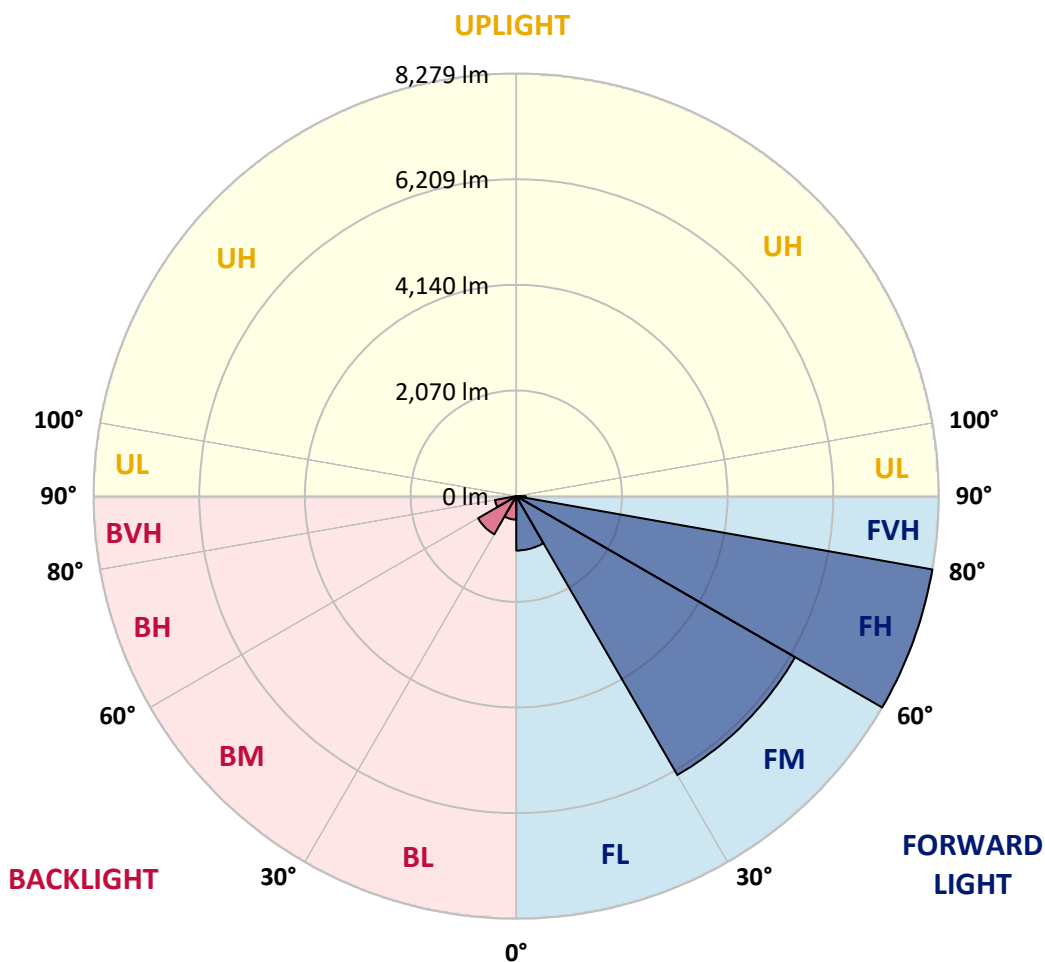
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.2	6.1			
FM (30°-60°)	6307.9	35.9			
FH (60°-80°)	8279.0	47.1			G4/12000
FVH (80°-90°)	188.1	1.1			G2/225
BL (0°-30°)	459.8	2.6	B1/500		
BM (30°-60°)	864.1	4.9	B1/1000		
BH (60°-80°)	423.9	2.4	B1/500		G1/500
BVH (80°-90°)	2.4	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°	1726.8	1726.8	1726.8	1726.8	1726.8	1726.8	1726.8	1726.8	1726.8	1726.8	1726.8
2.5°	1926.9	1914.2	1894.0	1886.4	1866.1	1856.0	1840.8	1833.2	1805.3	1777.5	1759.8
5°	2162.4	2132.0	2142.1	2111.7	2045.9	1992.7	1990.2	1931.9	1868.6	1818.0	1749.6
7.5°	2400.4	2375.0	2337.1	2294.0	2220.6	2142.1	2119.3	2063.6	1975.0	1886.4	1795.2
10°	2580.1	2562.4	2529.5	2468.7	2367.4	2278.8	2281.4	2187.7	2094.0	1992.7	1868.6
12.5°	2691.5	2699.1	2651.0	2590.3	2501.6	2390.2	2387.7	2324.4	2218.1	2111.7	1964.9
15°	2803.0	2830.8	2757.4	2686.5	2572.5	2491.5	2506.7	2430.7	2326.9	2205.4	2043.3
17.5°	2820.7	2828.3	2813.1	2709.3	2625.7	2557.3	2559.9	2509.2	2430.7	2299.1	2159.8
20°	2790.3	2785.2	2767.5	2691.5	2635.8	2595.3	2597.9	2585.2	2542.2	2435.8	2245.9
22.5°	2701.7	2701.7	2678.9	2628.2	2602.9	2640.9	2610.5	2658.6	2613.1	2549.8	2392.8
25°	2630.8	2658.6	2646.0	2613.1	2623.2	2673.8	2689.0	2734.6	2727.0	2648.5	2494.0
27.5°	2706.7	2673.8	2681.4	2643.4	2681.4	2757.4	2765.0	2797.9	2795.4	2732.1	2585.2
30°	2757.4	2787.8	2729.5	2646.0	2686.5	2815.6	2810.6	2853.6	2873.9	2797.9	2671.3
32.5°	2919.4	2894.1	2846.0	2734.6	2739.7	2813.1	2835.9	2891.6	2904.2	2858.7	2754.8
35°	3251.1	3213.1	3003.0	2835.9	2810.6	2846.0	2861.2	2970.1	2992.9	2942.2	2843.5
37.5°	3762.6	3676.5	3423.3	3053.6	2939.7	2932.1	2932.1	3076.4	3162.5	3046.0	2975.1
40°	4494.4	4372.8	4099.4	3456.2	3109.3	3139.7	3170.1	3248.6	3238.5	3162.5	3147.3
42.5°	5426.1	5332.5	5036.2	4132.3	3433.4	3281.5	3256.2	3362.5	3522.1	3491.7	3481.5
45°	6203.5	6208.5	6018.6	5059.0	3993.0	3608.1	3625.9	3706.9	3975.3	3952.5	3950.0
47.5°	6770.6	6699.7	6671.9	5952.8	4808.3	4228.5	4203.2	4258.9	4608.3	4752.6	4818.5
50°	7287.2	7239.1	7173.2	6821.3	5788.2	5005.8	4980.5	4985.6	5519.8	5722.4	5884.4
52.5°	7927.8	7988.6	7770.8	7555.6	7056.8	6016.1	5988.2	5889.5	6552.9	6831.4	7023.8
55°	8717.8	8603.8	8358.2	8469.6	8269.6	7107.4	7056.8	6940.3	7730.3	7846.8	8049.3
57.5°	8892.5	8806.4	9059.6	9454.6	9647.0	8388.6	8368.4	8158.2	8720.3	8614.0	9186.2
60°	9328.0	9350.8	9702.7	10487.7	10821.9	9867.3	9768.6	9398.9	9679.9	9700.2	10310.4
62.5°	9776.2	9723.0	10510.5	11265.0	11779.0	11267.5	11234.6	10500.3	10819.4	10561.1	11368.8
65°	9447.0	9528.0	10654.8	11918.3	13019.7	12637.4	12609.5	11561.2	11736.0	11414.4	11799.3
67.5°	8277.2	8112.6	9690.1	11619.5	13657.8	14073.0	14042.6	12718.4	12252.5	11409.3	10905.5
70°	6066.7	5924.9	7211.2	9839.5	12743.7	14807.3	14928.8	13523.6	12042.3	10345.9	8413.9
72.5°	2972.6	2975.1	4041.1	6671.9	10082.5	13495.7	13556.5	12399.3	10345.9	7626.5	4765.3
75°	878.6	888.7	1496.4	3271.4	6517.4	10249.7	10318.0	9411.6	7170.7	3939.8	1625.6
77.5°	321.6	321.6	496.3	1228.0	3251.1	6469.3	6464.3	5778.1	3630.9	1334.4	379.8
80°	167.1	174.7	258.3	501.3	1407.8	3370.1	3496.7	2828.3	1380.0	562.1	111.4
82.5°	68.4	76.0	141.8	258.3	676.1	1182.5	1293.9	1109.0	600.1	392.5	50.6
85°	20.3	22.8	68.4	144.3	265.9	296.2	329.2	372.2	377.3	303.8	22.8
87.5°	2.5	2.5	27.9	48.1	58.2	63.3	73.4	73.4	192.4	212.7	12.7
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°	1726.8	1726.8	1726.8	1726.8	1726.8	1726.8	1726.8	1726.8	1726.8	1726.8	1726.8
2.5°	1739.5	1726.8	1706.6	1661.0	1650.9	1618.0	1615.4	1585.1	1595.2	1574.9	1567.3
5°	1726.8	1699.0	1643.3	1607.8	1572.4	1549.6	1534.4	1521.7	1519.2	1509.1	1504.0
7.5°	1749.6	1711.7	1625.6	1569.9	1509.1	1488.8	1455.9	1453.4	1435.7	1417.9	1417.9
10°	1825.6	1757.2	1663.5	1569.9	1491.4	1425.5	1349.6	1293.9	1273.6	1228.0	1233.1
12.5°	1886.4	1825.6	1688.9	1592.6	1473.6	1324.3	1157.1	1028.0	967.2	909.0	931.8
15°	1972.5	1883.8	1737.0	1597.7	1405.3	1147.0	873.6	729.2	673.5	660.9	658.3
17.5°	2066.1	1972.5	1797.7	1585.1	1266.0	886.2	643.1	559.6	569.7	584.9	582.4
20°	2169.9	2056.0	1843.3	1542.0	1045.7	643.1	526.7	524.1	539.3	562.1	567.2
22.5°	2278.8	2180.1	1899.0	1412.9	779.9	516.5	506.4	506.4	516.5	544.4	539.3
25°	2400.4	2268.7	1926.9	1212.8	559.6	476.0	481.1	491.2	496.3	519.1	521.6
27.5°	2494.0	2367.4	1934.5	972.3	455.8	440.6	453.2	465.9	473.5	491.2	498.8
30°	2580.1	2491.5	1894.0	724.2	417.8	410.2	415.3	433.0	448.2	463.4	463.4
32.5°	2689.0	2562.4	1800.3	514.0	395.0	382.3	379.8	387.4	405.1	422.8	422.8
35°	2800.4	2681.4	1650.9	412.7	374.7	357.0	346.9	339.3	346.9	359.5	369.7
37.5°	2962.5	2861.2	1463.5	379.8	359.5	334.2	314.0	296.2	283.6	281.1	288.7
40°	3192.9	3063.8	1223.0	357.0	341.8	311.4	281.1	250.7	222.8	205.1	207.6
42.5°	3542.3	3362.5	962.2	344.4	329.2	286.1	243.1	200.0	164.6	146.9	146.9
45°	4041.1	3757.5	706.4	331.7	314.0	255.7	200.0	149.4	113.9	103.8	106.3
47.5°	4793.1	4233.6	506.4	311.4	293.7	222.8	157.0	106.3	83.6	78.5	81.0
50°	5775.6	4798.2	395.0	288.7	268.4	187.4	116.5	78.5	65.8	63.3	65.8
52.5°	6806.1	5367.9	346.9	268.4	230.4	149.4	86.1	63.3	55.7	53.2	55.7
55°	7687.2	5735.0	301.3	238.0	184.8	111.4	68.4	55.7	48.1	40.5	40.5
57.5°	8578.5	5919.9	238.0	197.5	136.7	83.6	58.2	48.1	40.5	32.9	30.4
60°	9302.7	6051.6	169.6	146.9	96.2	65.8	50.6	43.0	32.9	25.3	22.8
62.5°	9778.7	5674.3	124.1	111.4	70.9	55.7	43.0	35.4	25.3	17.7	17.7
65°	9543.2	5152.7	96.2	78.5	53.2	43.0	35.4	25.3	17.7	10.1	7.6
67.5°	8563.3	4198.1	78.5	58.2	40.5	32.9	27.9	20.3	10.1	2.5	2.5
70°	6388.3	3076.4	63.3	43.0	32.9	25.3	20.3	12.7	5.1	2.5	0.0
72.5°	3494.2	1683.8	50.6	35.4	25.3	20.3	15.2	10.1	5.1	0.0	0.0
75°	1154.6	448.2	38.0	25.3	15.2	12.7	10.1	7.6	2.5	0.0	0.0
77.5°	278.5	116.5	30.4	22.8	12.7	7.6	5.1	2.5	2.5	0.0	0.0
80°	86.1	48.1	22.8	15.2	10.1	7.6	2.5	0.0	0.0	0.0	0.0
82.5°	35.4	22.8	10.1	10.1	7.6	2.5	0.0	0.0	0.0	0.0	0.0
85°	17.7	12.7	7.6	5.1	5.1	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	5.1	2.5	2.5	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)