

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: P481668

Luminaire Tested: **IFLD-S-SA3C-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481668
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

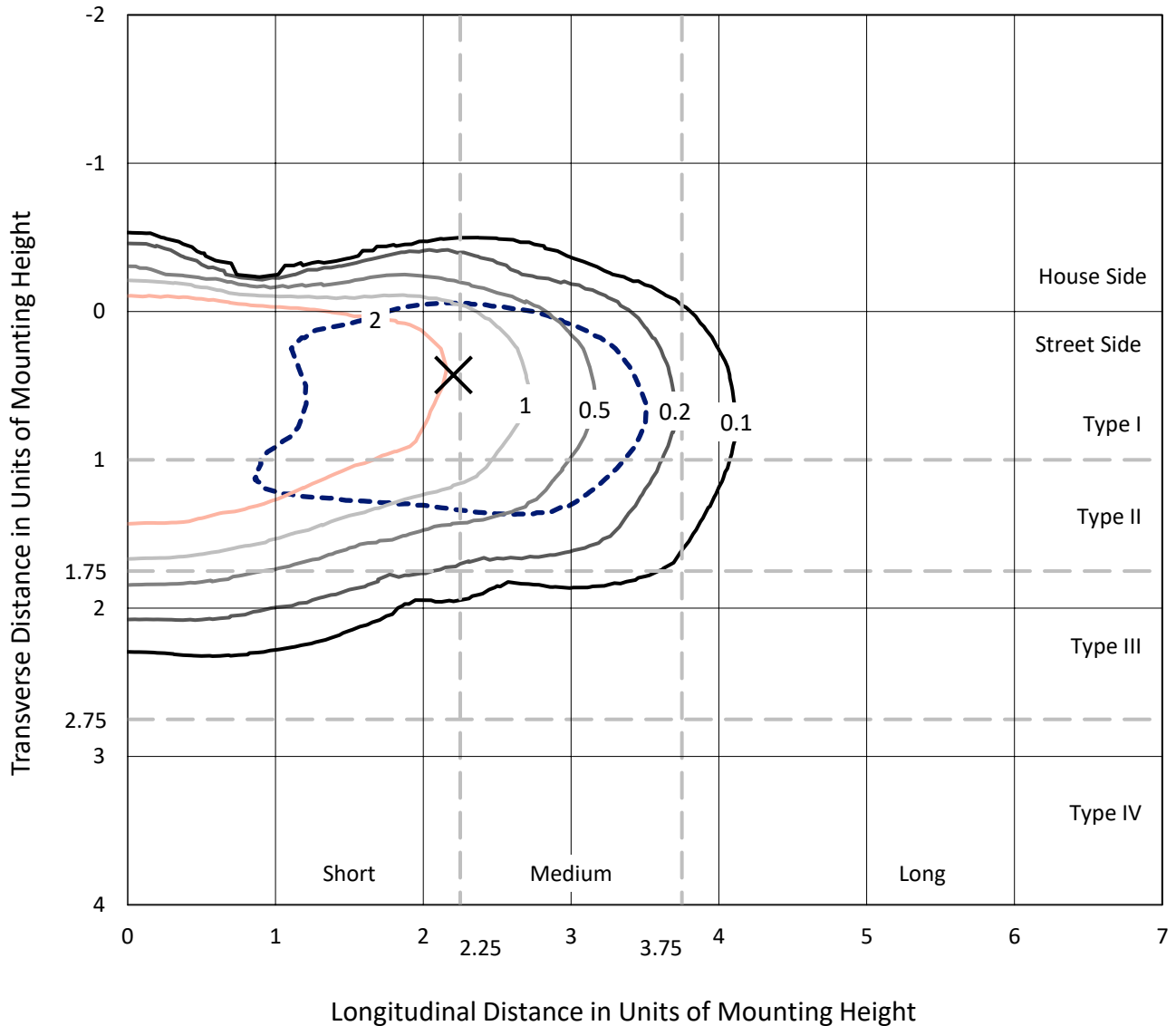
Lumens per Lamp: N/A
Luminaire Lumens: 15254 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8
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

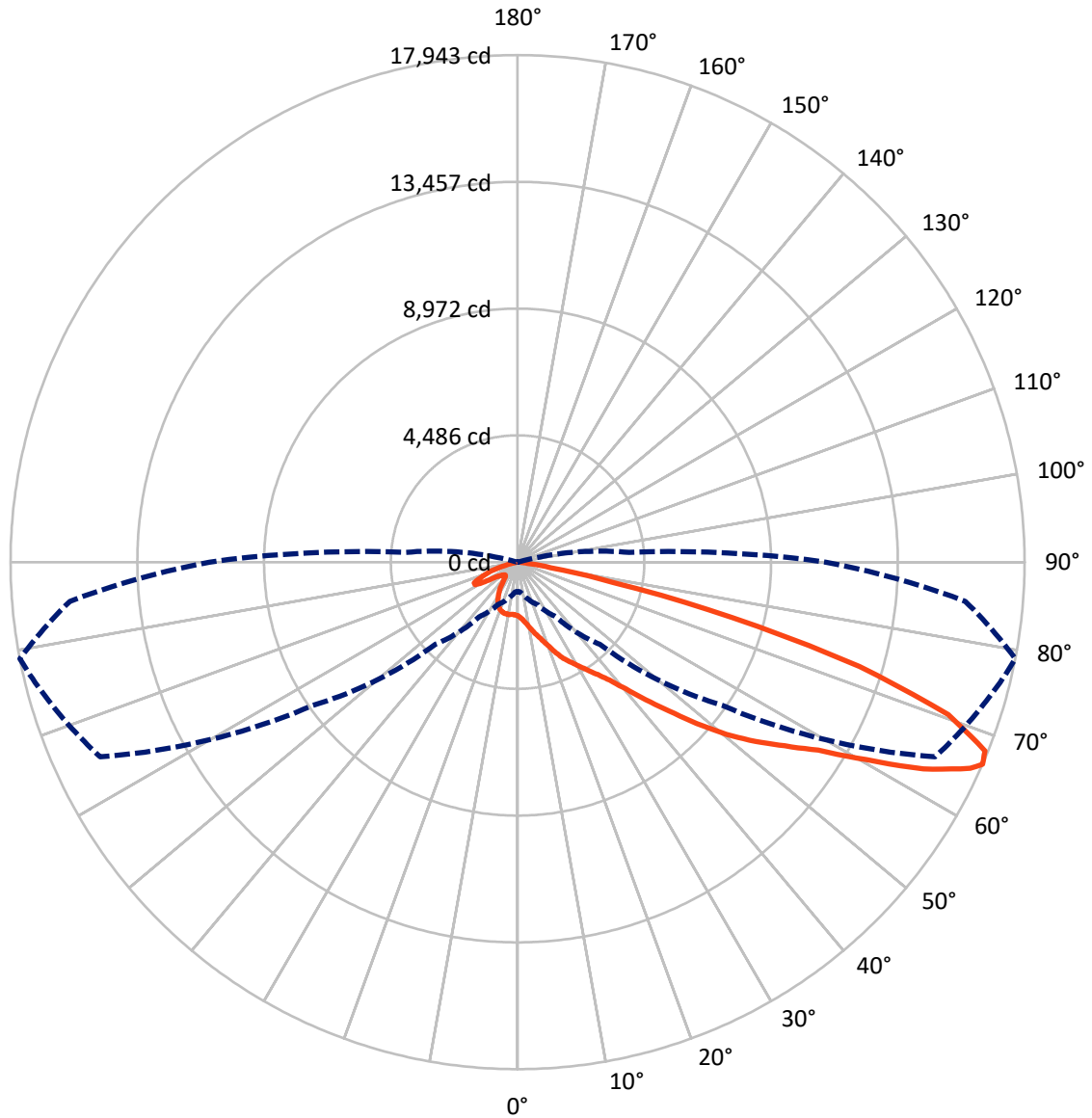
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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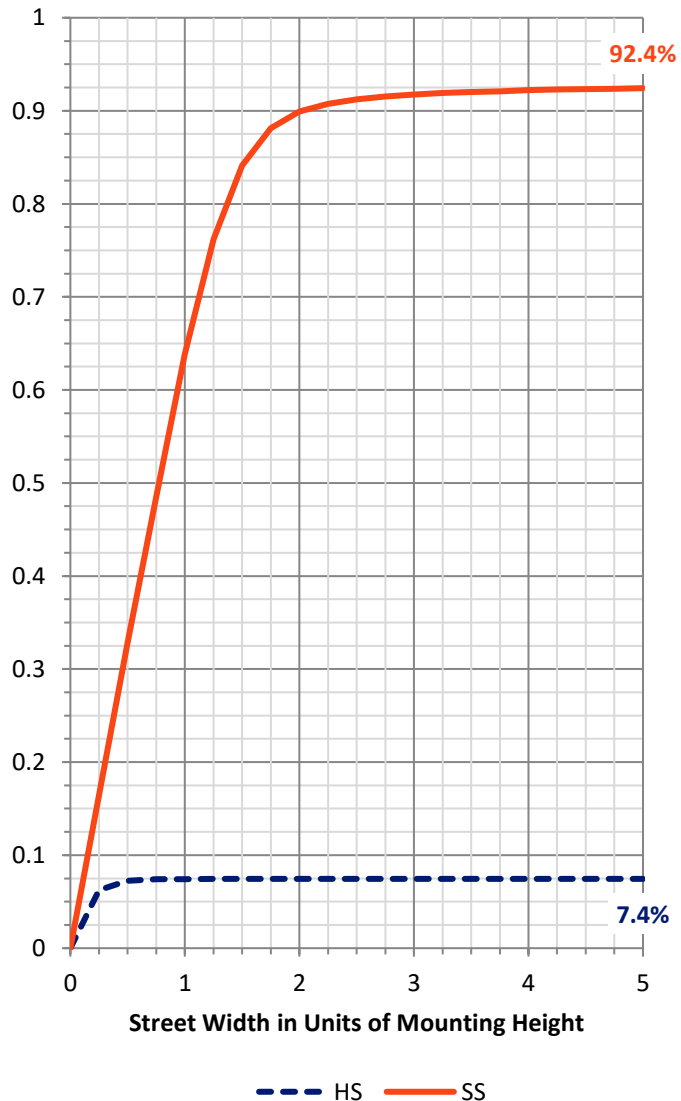
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1145.4	0.0	1145.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	14108.6	0.0	14108.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	15254.0	0.0	15254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	1.2
10°-20°	493.9	3.2
20°-30°	820.6	5.4
30°-40°	1409.4	9.2
40°-50°	2553.4	16.7
50°-60°	4036.1	26.5
60°-70°	4107.0	26.9
70°-80°	1566.2	10.3
80°-90°	87.8	0.6
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°	15254.0	100.0
0°-180°	15254.0	100.0

Coefficient of Utilization

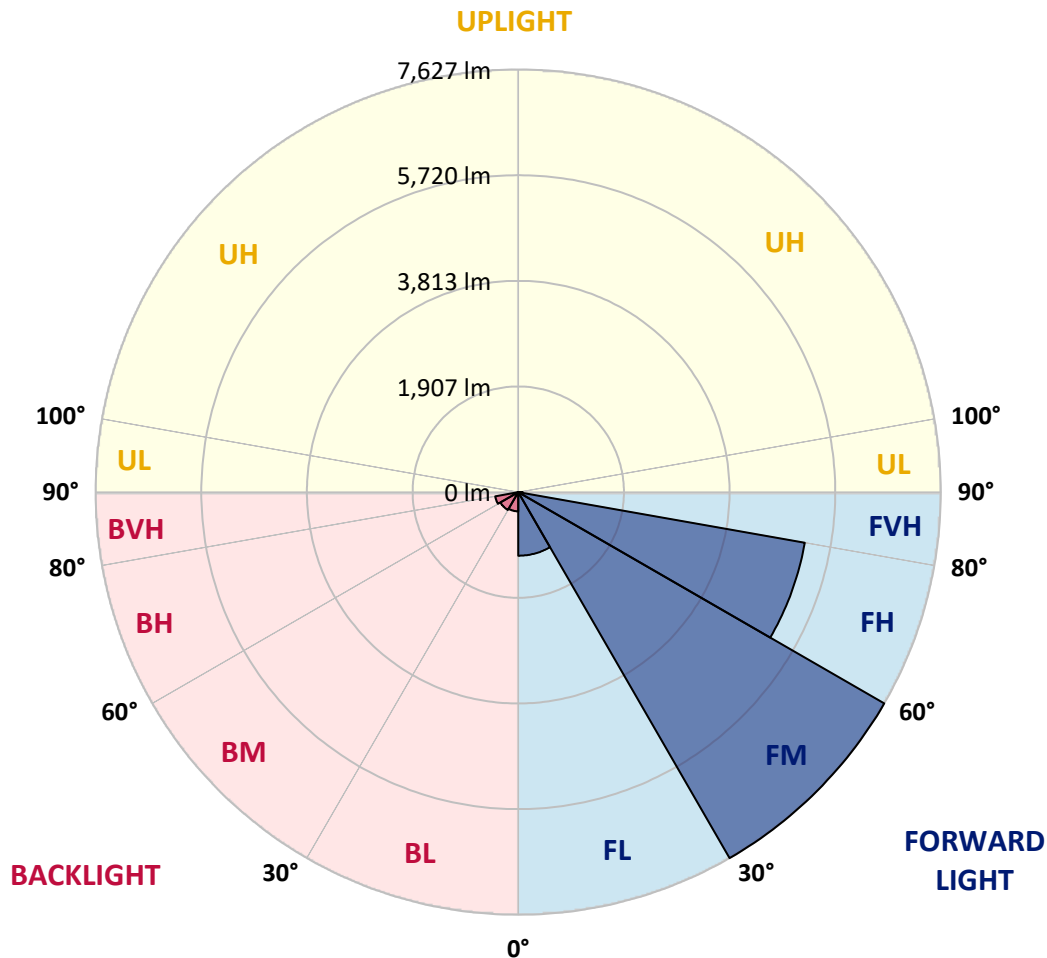


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1147.6	7.5			
FM (30°-60°)	7626.6	50.0			
FH (60°-80°)	5251.0	34.4			G3/7500
FVH (80°-90°)	83.3	0.5			G1/100
BL (0°-30°)	346.4	2.3	B1/500		
BM (30°-60°)	372.3	2.4	B1/1000		
BH (60°-80°)	422.2	2.8	B1/500		G1/500
BVH (80°-90°)	4.5	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1897.8	1897.8	1897.8	1897.8	1897.8	1897.8	1897.8	1897.8	1897.8	1897.8	1897.8
2.5°	2149.4	2147.0	2137.6	2121.2	2100.0	2093.0	2062.4	2020.1	1996.5	1970.7	1958.9
5°	2297.6	2285.8	2314.0	2302.3	2307.0	2250.5	2212.9	2182.3	2093.0	2057.7	2001.2
7.5°	2330.5	2342.2	2339.9	2358.7	2377.5	2398.7	2372.8	2328.1	2238.8	2187.0	2125.9
10°	2330.5	2325.8	2344.6	2370.5	2424.5	2471.6	2542.1	2483.3	2415.1	2354.0	2243.5
12.5°	2288.1	2281.1	2299.9	2354.0	2450.4	2546.8	2624.4	2680.9	2584.5	2535.1	2391.6
15°	2158.8	2151.8	2229.4	2325.8	2452.8	2610.3	2772.6	2864.3	2798.5	2720.8	2560.9
17.5°	1998.9	2008.3	2090.6	2250.5	2452.8	2640.9	2847.8	3047.7	3038.3	2939.6	2772.6
20°	1944.8	1951.9	2034.2	2149.4	2379.9	2662.1	2965.4	3247.6	3304.1	3186.5	2967.8
22.5°	2048.3	2041.2	2048.3	2118.8	2330.5	2643.2	3043.0	3475.7	3576.8	3485.1	3224.1
25°	2401.0	2396.3	2337.5	2229.4	2302.3	2600.9	3083.0	3626.2	3859.0	3774.4	3431.0
27.5°	2918.4	2899.6	2807.9	2582.1	2433.9	2626.8	3148.8	3772.0	4106.0	4009.5	3616.8
30°	3473.4	3428.7	3308.8	3026.6	2774.9	2723.2	3186.5	3880.2	4381.1	4258.8	3779.1
32.5°	3856.7	3915.5	3877.9	3591.0	3205.3	2946.6	3247.6	4016.6	4635.1	4555.1	4056.6
35°	4449.3	4517.5	4359.9	4106.0	3717.9	3301.7	3377.0	4127.1	5025.5	4891.4	4315.3
37.5°	5197.1	5248.9	5136.0	4653.9	4244.7	3739.1	3642.7	4357.6	5361.7	5298.2	4646.8
40°	5573.4	5822.7	5662.8	5227.7	4787.9	4350.5	4082.5	4628.0	5947.3	5895.6	5105.4
42.5°	6093.1	6217.7	6135.4	5813.3	5354.7	5004.3	4625.7	5154.8	6657.5	6657.5	5726.2
45°	6643.4	6648.1	6643.4	6380.0	5973.2	5792.1	5359.4	5815.6	7421.8	7506.4	6469.4
47.5°	7094.9	7236.0	7224.2	7066.7	6751.6	6683.4	6093.1	6568.1	8381.3	8529.4	7193.7
50°	7327.7	7485.3	7532.3	7614.6	7600.5	7744.0	6895.0	7440.6	9209.0	9573.5	8124.9
52.5°	7264.2	7276.0	7565.2	7889.8	8407.1	8809.2	7861.5	8430.6	10177.9	10537.7	8844.5
55°	6744.5	6699.8	7294.8	7666.4	8736.3	9460.7	9199.6	9665.2	10932.8	11480.7	9587.6
57.5°	5604.0	5615.7	6166.0	6920.9	8491.8	9719.3	10629.4	11278.5	11991.0	12543.7	10631.8
60°	3868.5	3854.3	4470.5	5342.9	7054.9	9237.2	11452.5	13369.1	13406.7	14189.8	12506.0
62.5°	2175.3	2180.0	2647.9	3393.4	4936.1	7548.8	11412.5	15589.0	15429.1	16115.8	14636.6
65°	1232.3	1262.8	1585.0	2010.7	2956.0	5067.8	9815.8	16473.3	16988.3	17599.7	15930.0
66°	1041.8	1062.9	1338.1	1660.3	2358.7	4110.7	8835.1	16301.6	17477.4	17943.0	15904.2
67.5°	806.6	834.8	1065.3	1316.9	1730.8	2845.5	7111.4	15447.9	17566.8	17839.6	15455.0
70°	552.6	571.4	747.8	999.4	1182.9	1455.7	4251.8	12771.8	15939.4	16169.9	13432.6
72.5°	388.0	397.4	524.4	757.2	910.1	832.5	2109.4	9086.7	12198.0	12647.1	10448.3
75°	279.8	289.3	359.8	543.2	710.2	545.6	966.5	5803.9	7480.6	7833.3	6293.0
77.5°	202.2	214.0	244.6	350.4	515.0	383.3	475.0	3031.3	3527.5	3466.3	2706.7
80°	122.3	134.0	181.1	225.8	376.3	270.4	261.0	1265.2	1251.1	1187.6	851.3
82.5°	56.4	65.8	96.4	152.9	263.4	188.1	124.6	451.5	395.1	362.2	239.9
85°	16.5	21.2	56.4	115.2	134.0	91.7	75.3	155.2	162.3	138.7	80.0
87.5°	0.0	2.4	25.9	28.2	40.0	30.6	28.2	40.0	75.3	61.1	25.9
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°	1897.8	1897.8	1897.8	1897.8	1897.8	1897.8	1897.8	1897.8	1897.8	1897.8	1897.8
2.5°	1916.6	1900.1	1860.1	1799.0	1744.9	1716.7	1676.7	1641.4	1622.6	1620.3	1617.9
5°	1963.6	1918.9	1822.5	1712.0	1629.7	1540.3	1479.2	1434.5	1392.2	1352.2	1375.7
7.5°	2027.1	1956.6	1799.0	1655.6	1476.8	1361.6	1253.4	1189.9	1152.3	1117.0	1112.3
10°	2125.9	2036.5	1782.5	1523.9	1319.3	1150.0	1039.4	947.7	896.0	834.8	858.3
12.5°	2259.9	2100.0	1721.4	1403.9	1140.5	961.8	804.3	656.1	573.8	510.3	512.7
15°	2394.0	2184.7	1665.0	1258.1	978.3	743.1	512.7	411.5	388.0	373.9	378.6
17.5°	2525.7	2252.9	1578.0	1110.0	792.5	472.7	373.9	352.7	341.0	326.9	326.9
20°	2685.6	2297.6	1469.8	973.6	545.6	350.4	319.8	305.7	286.9	268.1	270.4
22.5°	2840.8	2335.2	1345.1	799.6	366.9	303.4	268.1	249.3	232.8	214.0	214.0
25°	2996.0	2346.9	1182.9	573.8	296.3	242.2	209.3	183.4	167.0	150.5	152.9
27.5°	3101.8	2274.0	1030.0	366.9	237.5	183.4	145.8	124.6	110.5	94.1	94.1
30°	3163.0	2140.0	865.4	258.7	178.7	124.6	87.0	65.8	51.7	40.0	37.6
32.5°	3224.1	2031.8	679.6	197.5	117.6	65.8	32.9	11.8	0.0	0.0	0.0
35°	3346.4	1909.5	456.2	110.5	40.0	2.4	0.0	0.0	0.0	0.0	0.0
37.5°	3424.0	1740.2	209.3	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3619.2	1655.6	51.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3936.6	1596.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4284.7	1573.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4748.0	1636.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5237.1	1808.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5773.3	1970.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6241.3	2165.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7102.0	2626.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8647.0	3532.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10387.2	4204.7	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11024.5	4188.3	44.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10911.6	3957.8	44.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10326.1	3515.7	40.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8868.0	2904.3	40.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6761.0	2262.3	37.6	9.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	4080.1	1204.0	30.6	11.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1625.0	423.3	23.5	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	439.8	127.0	14.1	9.4	7.1	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	115.2	47.0	11.8	9.4	4.7	2.4	0.0	0.0	0.0	0.0	0.0
85°	44.7	18.8	9.4	7.1	7.1	4.7	2.4	0.0	0.0	0.0	0.0
87.5°	14.1	7.1	7.1	4.7	4.7	2.4	2.4	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)