

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: P483597

Luminaire Tested: **IFLD-M-SA4A-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483597
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

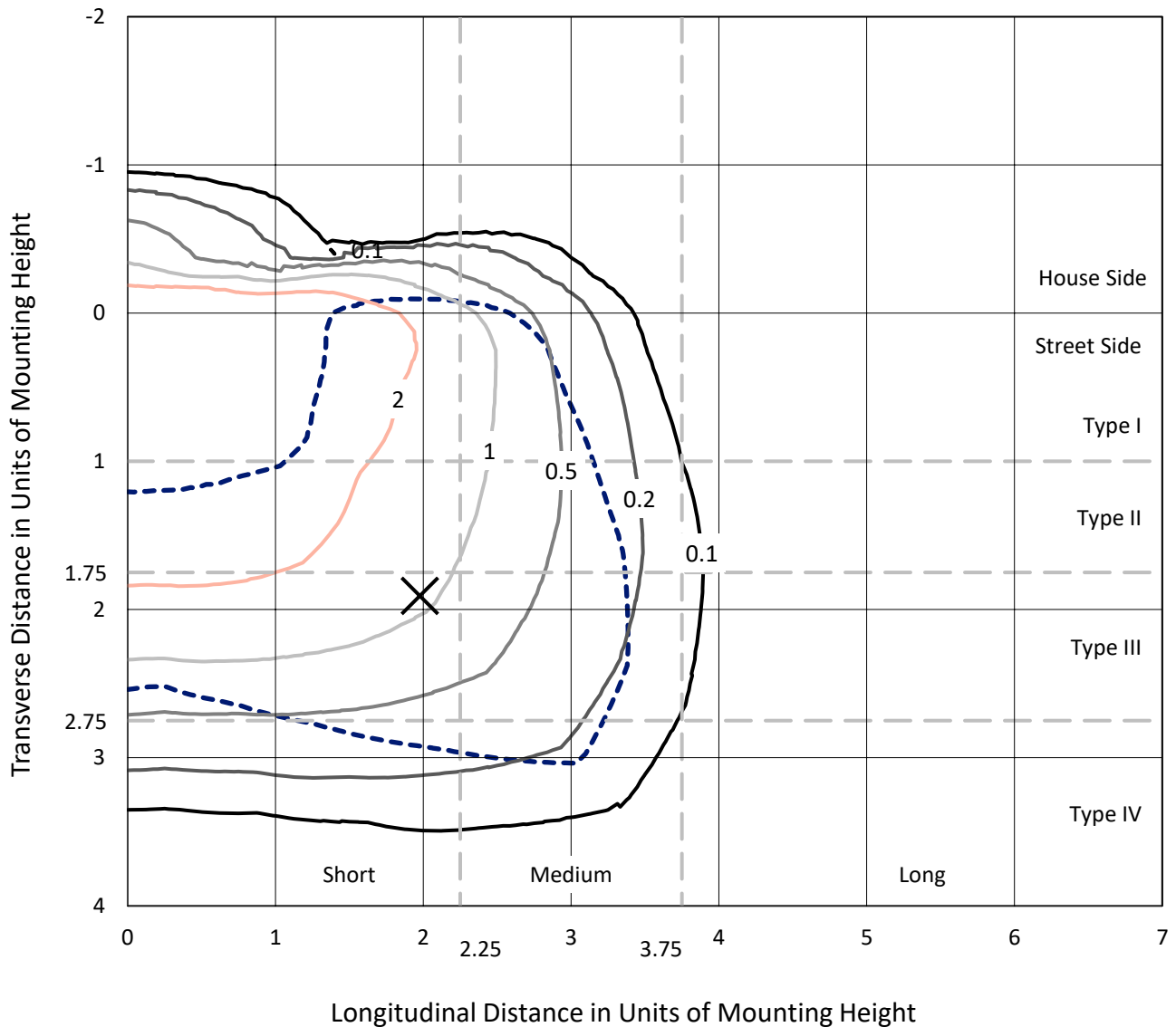
Lumens per Lamp: N/A
Luminaire Lumens: 13439.2 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6
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

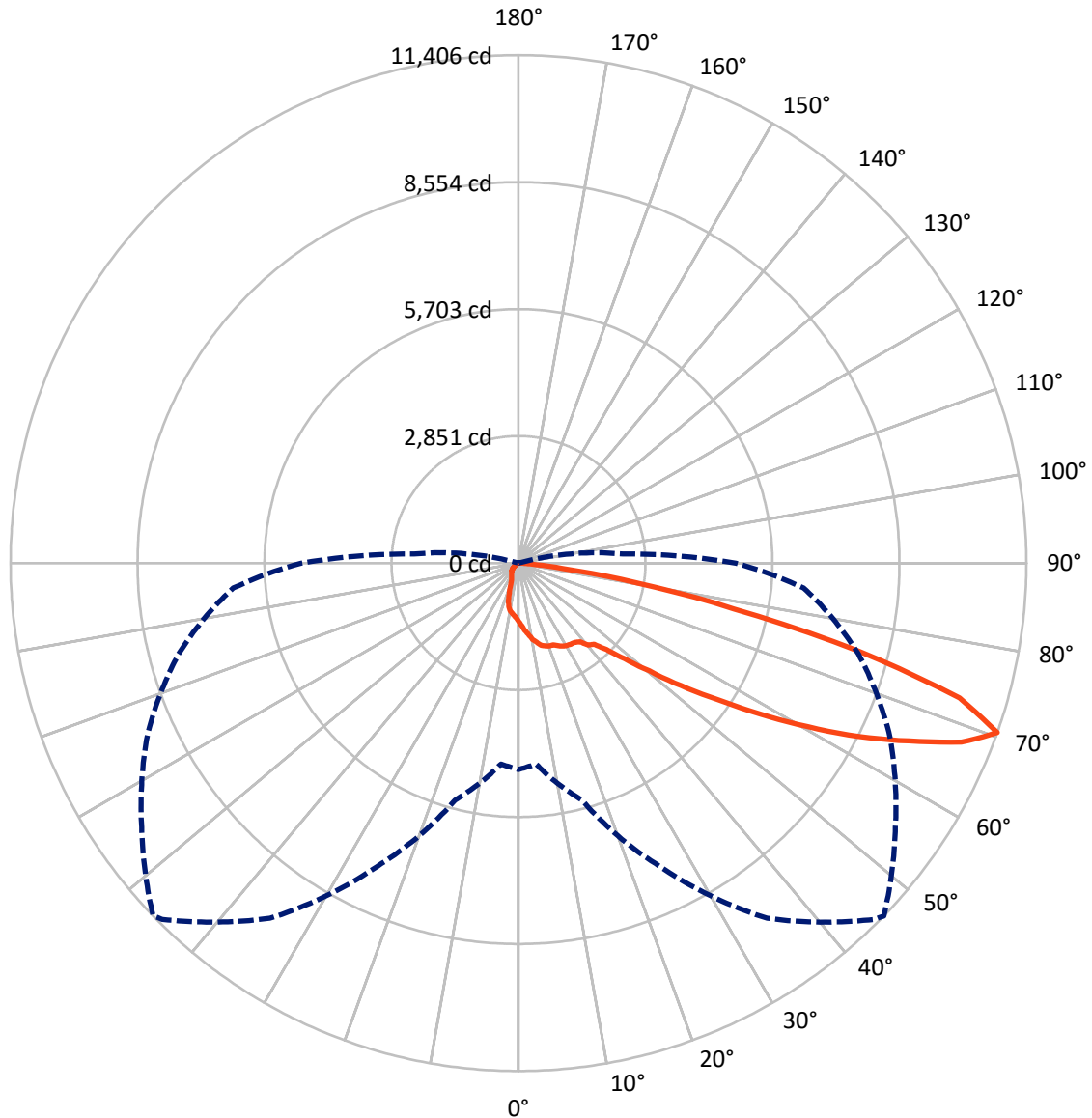
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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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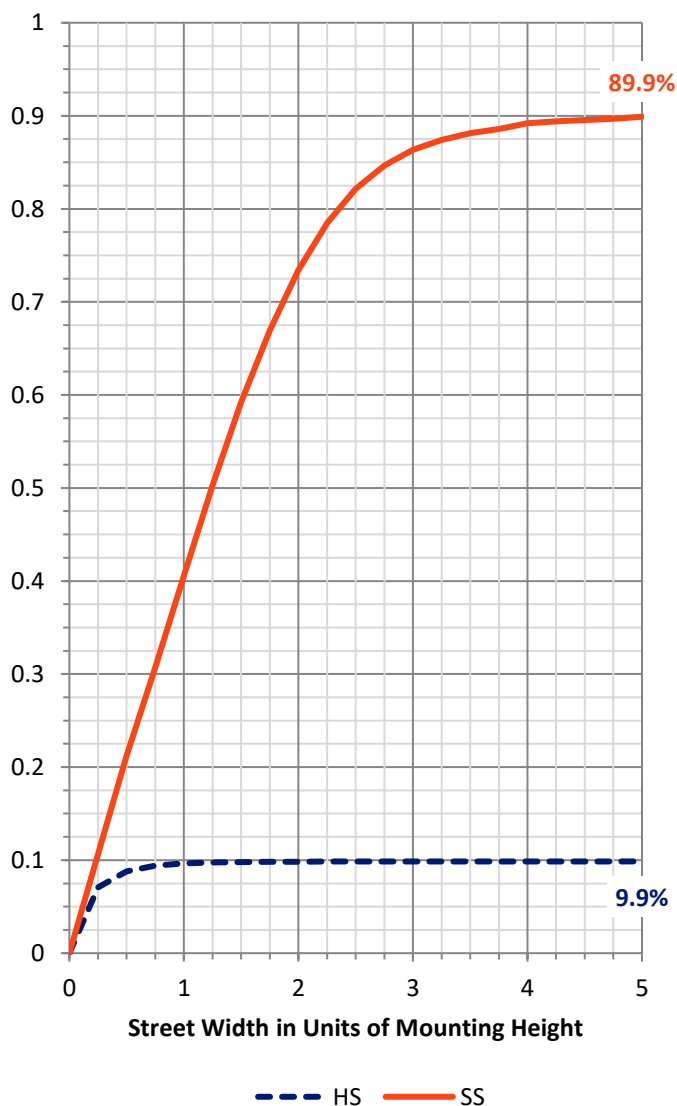
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1337.2	0.0	1337.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	12102.0	0.0	12102.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	13439.2	0.0	13439.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	1.0
10°-20°	397.3	3.0
20°-30°	636.3	4.7
30°-40°	908.3	6.8
40°-50°	1568.4	11.7
50°-60°	3002.8	22.3
60°-70°	4446.7	33.1
70°-80°	2202.4	16.4
80°-90°	145.5	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°	13439.2	100.0
0°-180°	13439.2	100.0

Coefficient of Utilization



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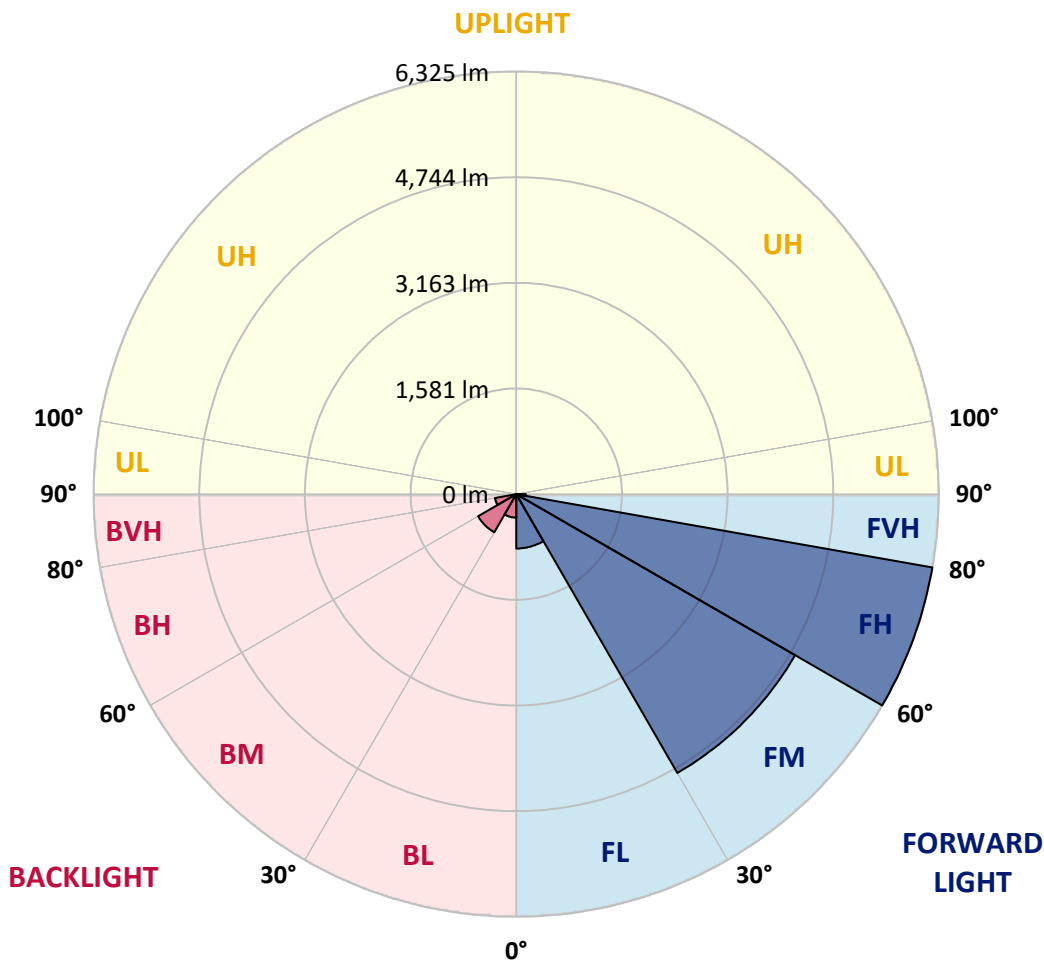
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.8	6.1			
FM (30°-60°)	4819.3	35.9			
FH (60°-80°)	6325.2	47.1			G3/7500
FVH (80°-90°)	143.7	1.1			G2/225
BL (0°-30°)	351.3	2.6	B1/500		
BM (30°-60°)	660.2	4.9	B1/1000		
BH (60°-80°)	323.9	2.4	B1/500		G1/500
BVH (80°-90°)	1.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3
2.5°	1472.1	1462.5	1447.0	1441.2	1425.7	1418.0	1406.4	1400.6	1379.3	1358.0	1344.5
5°	1652.0	1628.8	1636.6	1613.4	1563.1	1522.4	1520.5	1476.0	1427.6	1389.0	1336.7
7.5°	1833.9	1814.5	1785.5	1752.6	1696.5	1636.6	1619.2	1576.6	1508.9	1441.2	1371.5
10°	1971.2	1957.7	1932.5	1886.1	1808.7	1741.0	1743.0	1671.4	1599.8	1522.4	1427.6
12.5°	2056.3	2062.1	2025.4	1979.0	1911.3	1826.1	1824.2	1775.8	1694.6	1613.4	1501.2
15°	2141.5	2162.7	2106.6	2052.5	1965.4	1903.5	1915.1	1857.1	1777.8	1684.9	1561.1
17.5°	2155.0	2160.8	2149.2	2069.9	2006.1	1953.8	1955.8	1917.1	1857.1	1756.5	1650.1
20°	2131.8	2127.9	2114.4	2056.3	2013.8	1982.8	1984.8	1975.1	1942.2	1861.0	1715.9
22.5°	2064.1	2064.1	2046.7	2008.0	1988.6	2017.7	1994.4	2031.2	1996.4	1948.0	1828.1
25°	2009.9	2031.2	2021.5	1996.4	2004.1	2042.8	2054.4	2089.2	2083.4	2023.5	1905.5
27.5°	2068.0	2042.8	2048.6	2019.6	2048.6	2106.6	2112.4	2137.6	2135.7	2087.3	1975.1
30°	2106.6	2129.9	2085.4	2021.5	2052.5	2151.1	2147.3	2180.2	2195.6	2137.6	2040.9
32.5°	2230.4	2211.1	2174.3	2089.2	2093.1	2149.2	2166.6	2209.2	2218.8	2184.0	2104.7
35°	2483.9	2454.8	2294.3	2166.6	2147.3	2174.3	2186.0	2269.1	2286.5	2247.9	2172.4
37.5°	2874.6	2808.9	2615.4	2333.0	2245.9	2240.1	2240.1	2350.4	2416.2	2327.2	2273.0
40°	3433.7	3340.8	3131.9	2640.6	2375.5	2398.7	2422.0	2481.9	2474.2	2416.2	2404.6
42.5°	4145.6	4074.0	3847.7	3157.1	2623.1	2507.1	2487.7	2569.0	2690.9	2667.6	2659.9
45°	4739.5	4743.3	4598.2	3865.1	3050.7	2756.6	2770.2	2832.1	3037.1	3019.7	3017.8
47.5°	5172.8	5118.6	5097.3	4547.9	3673.6	3230.6	3211.2	3253.8	3520.7	3631.0	3681.3
50°	5567.4	5530.7	5480.4	5211.5	4422.2	3824.5	3805.1	3809.0	4217.2	4371.9	4495.7
52.5°	6056.8	6103.3	5936.9	5772.5	5391.4	4596.3	4575.0	4499.6	5006.4	5219.2	5366.2
55°	6660.4	6573.3	6385.7	6470.8	6318.0	5430.1	5391.4	5302.4	5906.0	5994.9	6149.7
57.5°	6793.9	6728.1	6921.6	7223.3	7370.3	6408.9	6393.4	6232.9	6662.3	6581.1	7018.3
60°	7126.6	7144.0	7412.9	8012.6	8267.9	7538.6	7463.2	7180.8	7395.5	7411.0	7877.2
62.5°	7469.0	7428.4	8030.0	8606.5	8999.2	8608.4	8583.3	8022.3	8266.0	8068.7	8685.8
65°	7217.5	7279.4	8140.3	9105.6	9947.1	9655.0	9633.7	8832.8	8966.3	8720.6	9014.7
67.5°	6323.8	6198.1	7403.2	8877.3	10434.6	10751.8	10728.6	9716.9	9360.9	8716.7	8331.8
70°	4635.0	4526.7	5509.4	7517.4	9736.2	11312.8	11405.7	10332.0	9200.4	7904.3	6428.3
72.5°	2271.1	2273.0	3087.4	5097.3	7703.1	10310.7	10357.2	9473.1	7904.3	5826.6	3640.7
75°	671.3	679.0	1143.3	2499.3	4979.3	7830.8	7883.0	7190.4	5478.4	3010.0	1241.9
77.5°	245.7	245.7	379.2	938.2	2483.9	4942.6	4938.7	4414.5	2774.0	1019.5	290.2
80°	127.7	133.5	197.3	383.0	1075.6	2574.8	2671.5	2160.8	1054.3	429.5	85.1
82.5°	52.2	58.0	108.3	197.3	516.5	903.4	988.5	847.3	458.5	299.8	38.7
85°	15.5	17.4	52.2	110.3	203.1	226.3	251.5	284.4	288.2	232.1	17.4
87.5°	1.9	1.9	21.3	36.8	44.5	48.4	56.1	56.1	147.0	162.5	9.7
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°	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3
2.5°	1329.0	1319.3	1303.8	1269.0	1261.3	1236.1	1234.2	1211.0	1218.7	1203.2	1197.4
5°	1319.3	1298.0	1255.5	1228.4	1201.3	1183.9	1172.3	1162.6	1160.7	1152.9	1149.1
7.5°	1336.7	1307.7	1241.9	1199.4	1152.9	1137.5	1112.3	1110.4	1096.8	1083.3	1083.3
10°	1394.8	1342.5	1270.9	1199.4	1139.4	1089.1	1031.1	988.5	973.0	938.2	942.1
12.5°	1441.2	1394.8	1290.3	1216.8	1125.9	1011.7	884.1	785.4	739.0	694.5	711.9
15°	1507.0	1439.2	1327.0	1220.7	1073.6	876.3	667.4	557.1	514.6	504.9	503.0
17.5°	1578.5	1507.0	1373.5	1211.0	967.2	677.1	491.4	427.5	435.3	446.9	444.9
20°	1657.8	1570.8	1408.3	1178.1	798.9	491.4	402.4	400.4	412.0	429.5	433.3
22.5°	1741.0	1665.6	1450.9	1079.4	595.8	394.6	386.9	386.9	394.6	415.9	412.0
25°	1833.9	1733.3	1472.1	926.6	427.5	363.7	367.6	375.3	379.2	396.6	398.5
27.5°	1905.5	1808.7	1477.9	742.8	348.2	336.6	346.3	355.9	361.7	375.3	381.1
30°	1971.2	1903.5	1447.0	553.3	319.2	313.4	317.3	330.8	342.4	354.0	354.0
32.5°	2054.4	1957.7	1375.4	392.7	301.8	292.1	290.2	296.0	309.5	323.1	323.1
35°	2139.5	2048.6	1261.3	315.3	286.3	272.8	265.0	259.2	265.0	274.7	282.4
37.5°	2263.3	2186.0	1118.1	290.2	274.7	255.4	239.9	226.3	216.7	214.7	220.5
40°	2439.4	2340.7	934.4	272.8	261.2	237.9	214.7	191.5	170.2	156.7	158.6
42.5°	2706.3	2569.0	735.1	263.1	251.5	218.6	185.7	152.8	125.7	112.2	112.2
45°	3087.4	2870.8	539.7	253.4	239.9	195.4	152.8	114.1	87.1	79.3	81.2
47.5°	3662.0	3234.4	386.9	237.9	224.4	170.2	119.9	81.2	63.8	60.0	61.9
50°	4412.5	3665.8	301.8	220.5	205.1	143.2	89.0	60.0	50.3	48.4	50.3
52.5°	5199.9	4101.1	265.0	205.1	176.0	114.1	65.8	48.4	42.6	40.6	42.6
55°	5873.1	4381.6	230.2	181.8	141.2	85.1	52.2	42.6	36.8	31.0	31.0
57.5°	6554.0	4522.8	181.8	150.9	104.5	63.8	44.5	36.8	31.0	25.1	23.2
60°	7107.3	4623.4	129.6	112.2	73.5	50.3	38.7	32.9	25.1	19.3	17.4
62.5°	7470.9	4335.2	94.8	85.1	54.2	42.6	32.9	27.1	19.3	13.5	13.5
65°	7291.0	3936.7	73.5	60.0	40.6	32.9	27.1	19.3	13.5	7.7	5.8
67.5°	6542.4	3207.4	60.0	44.5	31.0	25.1	21.3	15.5	7.7	1.9	1.9
70°	4880.7	2350.4	48.4	32.9	25.1	19.3	15.5	9.7	3.9	1.9	0.0
72.5°	2669.6	1286.4	38.7	27.1	19.3	15.5	11.6	7.7	3.9	0.0	0.0
75°	882.1	342.4	29.0	19.3	11.6	9.7	7.7	5.8	1.9	0.0	0.0
77.5°	212.8	89.0	23.2	17.4	9.7	5.8	3.9	1.9	1.9	0.0	0.0
80°	65.8	36.8	17.4	11.6	7.7	5.8	1.9	0.0	0.0	0.0	0.0
82.5°	27.1	17.4	7.7	7.7	5.8	1.9	0.0	0.0	0.0	0.0	0.0
85°	13.5	9.7	5.8	3.9	3.9	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.9	1.9	1.9	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)