

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: P483755

Luminaire Tested: **IFLD-M-SA4C-827-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483755  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-827-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W  
distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

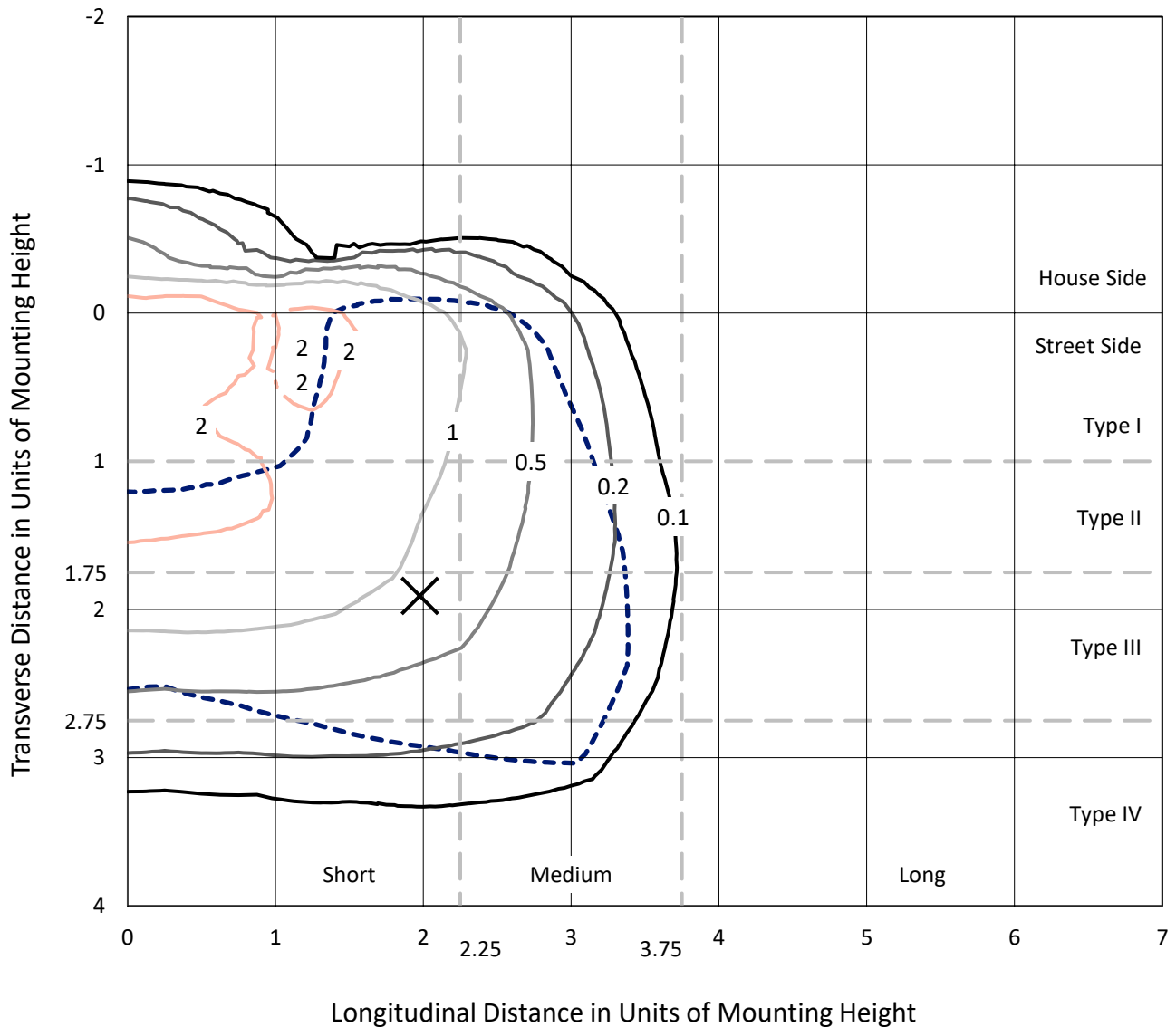
Lumens per Lamp: N/A  
Luminaire Lumens: 15420.9 lumens  
Efficiency: N/A  
Efficacy: 70.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 218.1  
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

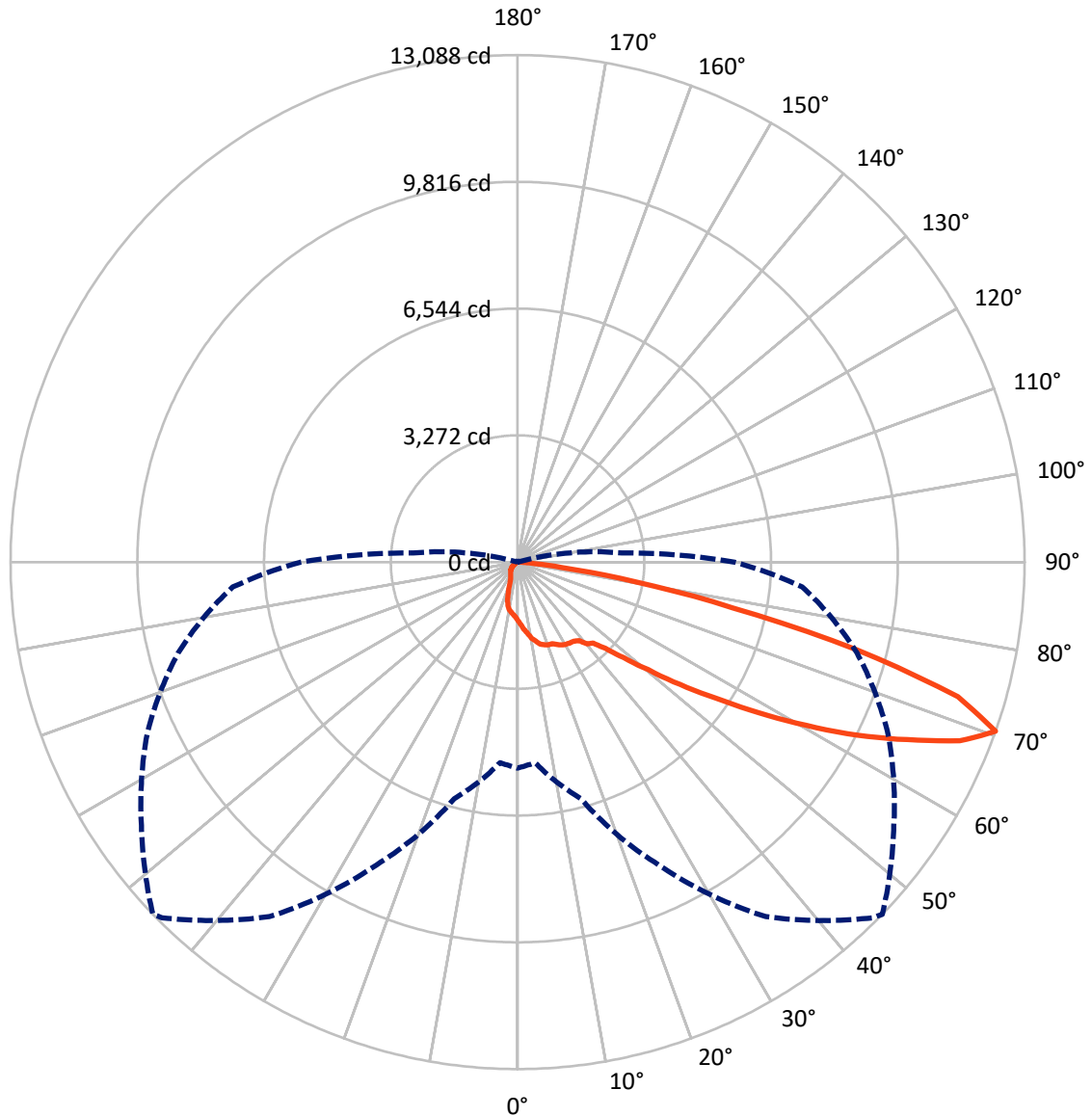
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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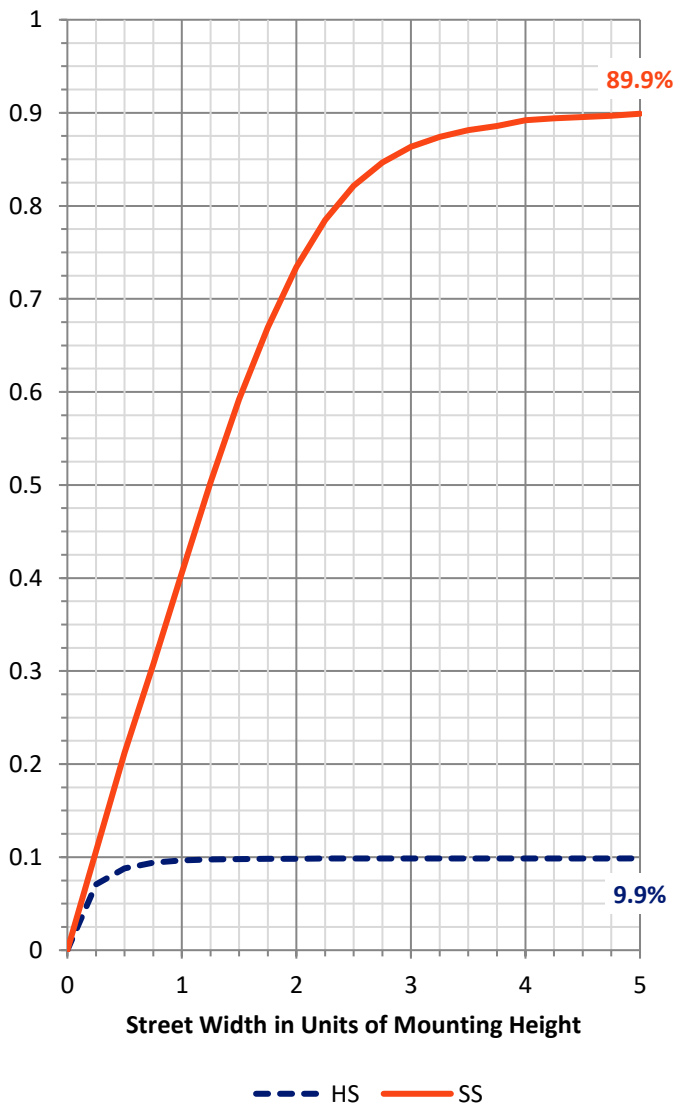
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1534.4	0.0	1534.4
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	13886.5	0.0	13886.5
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	15420.9	0.0	15420.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.9	1.0
10°-20°	455.8	3.0
20°-30°	730.2	4.7
30°-40°	1042.2	6.8
40°-50°	1799.6	11.7
50°-60°	3445.6	22.3
60°-70°	5102.3	33.1
70°-80°	2527.1	16.4
80°-90°	167.0	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°	15420.9	100.0
0°-180°	15420.9	100.0



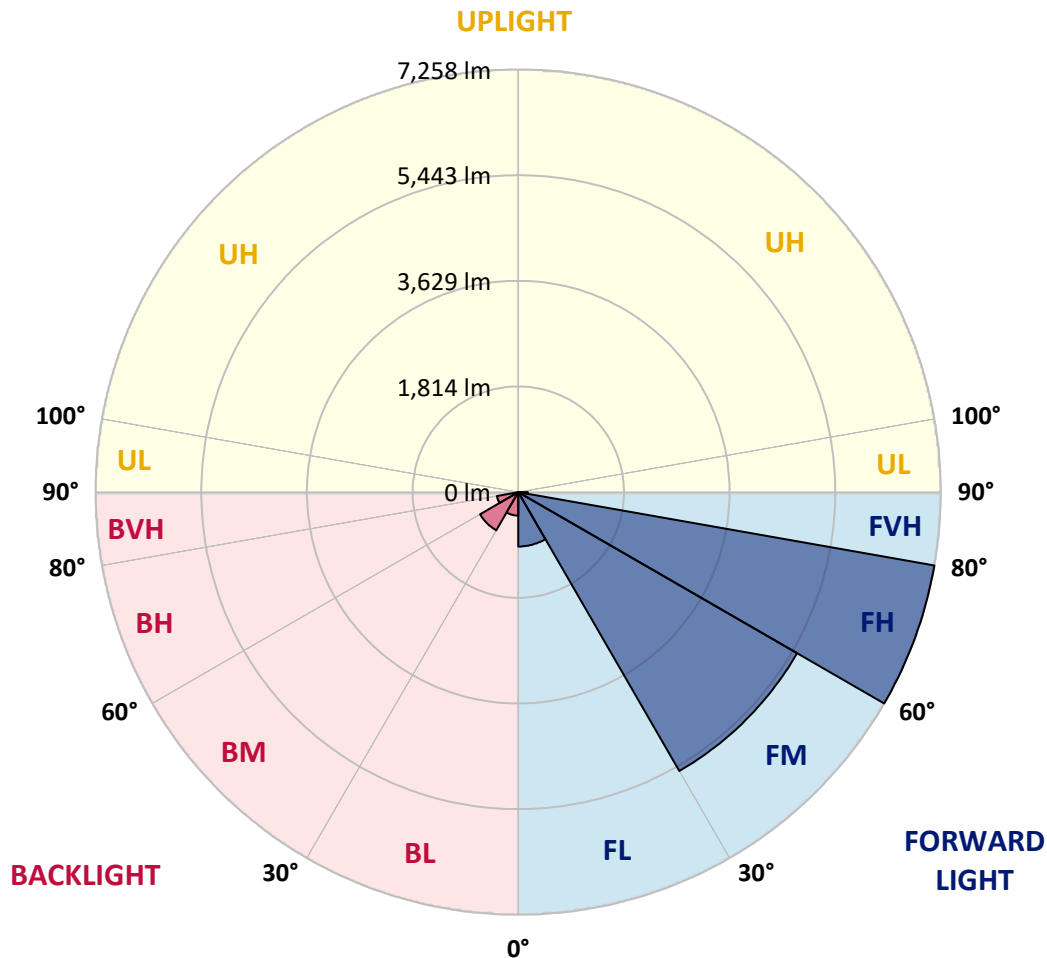
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.8	6.1			
FM (30°-60°)	5529.9	35.9			
FH (60°-80°)	7257.9	47.1			G3/7500
FVH (80°-90°)	164.9	1.1			G2/225
BL (0°-30°)	403.1	2.6	B1/500		
BM (30°-60°)	757.6	4.9	B1/1000		
BH (60°-80°)	371.6	2.4	B1/500		G1/500
BVH (80°-90°)	2.1	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°	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8
2.5°	1689.2	1678.1	1660.3	1653.7	1635.9	1627.1	1613.7	1607.1	1582.7	1558.2	1542.7
5°	1895.6	1869.0	1877.9	1851.2	1793.5	1746.9	1744.7	1693.6	1638.2	1593.8	1533.8
7.5°	2104.3	2082.1	2048.8	2011.1	1946.7	1877.9	1857.9	1809.1	1731.4	1653.7	1573.8
10°	2261.9	2246.4	2217.5	2164.2	2075.4	1997.7	2000.0	1917.8	1835.7	1746.9	1638.2
12.5°	2359.6	2366.2	2324.0	2270.8	2193.1	2095.4	2093.2	2037.7	1944.5	1851.2	1722.5
15°	2457.2	2481.6	2417.3	2355.1	2255.2	2184.2	2197.5	2130.9	2039.9	1933.4	1791.3
17.5°	2472.8	2479.4	2466.1	2375.1	2301.8	2241.9	2244.1	2199.7	2130.9	2015.5	1893.4
20°	2446.1	2441.7	2426.2	2359.6	2310.7	2275.2	2277.4	2266.3	2228.6	2135.4	1968.9
22.5°	2368.4	2368.4	2348.5	2304.1	2281.9	2315.2	2288.5	2330.7	2290.7	2235.3	2097.6
25°	2306.3	2330.7	2319.6	2290.7	2299.6	2344.0	2357.3	2397.3	2390.6	2321.8	2186.4
27.5°	2372.9	2344.0	2350.7	2317.4	2350.7	2417.3	2423.9	2452.8	2450.6	2395.1	2266.3
30°	2417.3	2443.9	2392.9	2319.6	2355.1	2468.3	2463.9	2501.6	2519.4	2452.8	2341.8
32.5°	2559.3	2537.1	2495.0	2397.3	2401.7	2466.1	2486.1	2534.9	2546.0	2506.1	2415.1
35°	2850.1	2816.8	2632.6	2486.1	2463.9	2495.0	2508.3	2603.7	2623.7	2579.3	2492.7
37.5°	3298.5	3223.0	3001.1	2677.0	2577.1	2570.4	2570.4	2697.0	2772.4	2670.3	2608.2
40°	3940.0	3833.5	3593.7	3029.9	2725.8	2752.5	2779.1	2847.9	2839.0	2772.4	2759.1
42.5°	4756.9	4674.7	4415.0	3622.6	3009.9	2876.8	2854.6	2947.8	3087.6	3061.0	3052.1
45°	5438.3	5442.8	5276.3	4435.0	3500.5	3163.1	3178.6	3249.7	3485.0	3465.0	3462.8
47.5°	5935.5	5873.4	5849.0	5218.6	4215.2	3706.9	3684.7	3733.6	4039.9	4166.4	4224.1
50°	6388.4	6346.2	6288.5	5979.9	5074.3	4388.4	4366.2	4370.6	4839.0	5016.6	5158.6
52.5°	6949.9	7003.2	6812.3	6623.6	6186.4	5274.1	5249.6	5163.1	5744.6	5988.8	6157.5
55°	7642.5	7542.6	7327.3	7425.0	7249.6	6230.8	6186.4	6084.2	6776.8	6878.9	7056.5
57.5°	7795.7	7720.2	7942.2	8288.4	8457.1	7353.9	7336.2	7151.9	7644.7	7551.5	8053.1
60°	8177.4	8197.4	8506.0	9194.1	9487.1	8650.2	8563.7	8239.6	8486.0	8503.7	9038.7
62.5°	8570.3	8523.7	9214.1	9875.5	10326.1	9877.7	9848.9	9205.2	9484.9	9258.4	9966.5
65°	8281.8	8352.8	9340.6	10448.2	11413.8	11078.6	11054.2	10135.2	10288.4	10006.5	10343.9
67.5°	7256.3	7112.0	8494.9	10186.3	11973.2	12337.2	12310.6	11149.6	10741.2	10002.1	9560.3
70°	5318.4	5194.1	6321.8	8625.8	11171.8	12980.9	13087.5	11855.5	10557.0	9069.8	7376.1
72.5°	2606.0	2608.2	3542.7	5849.0	8838.9	11831.1	11884.4	10870.0	9069.8	6685.8	4177.5
75°	770.2	779.1	1311.9	2867.9	5713.6	8985.4	9045.4	8250.7	6286.2	3453.9	1425.1
77.5°	281.9	281.9	435.1	1076.6	2850.1	5671.4	5666.9	5065.4	3183.1	1169.8	333.0
80°	146.5	153.2	226.4	439.5	1234.2	2954.4	3065.4	2479.4	1209.7	492.8	97.7
82.5°	59.9	66.6	124.3	226.4	592.7	1036.6	1134.3	972.2	526.1	344.1	44.4
85°	17.8	20.0	59.9	126.5	233.1	259.7	288.6	326.3	330.7	266.4	20.0
87.5°	2.2	2.2	24.4	42.2	51.1	55.5	64.4	64.4	168.7	186.5	11.1
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°	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8
2.5°	1524.9	1513.8	1496.1	1456.1	1447.3	1418.4	1416.2	1389.5	1398.4	1380.7	1374.0
5°	1513.8	1489.4	1440.6	1409.5	1378.4	1358.5	1345.1	1334.1	1331.8	1323.0	1318.5
7.5°	1533.8	1500.5	1425.1	1376.2	1323.0	1305.2	1276.3	1274.1	1258.6	1243.0	1243.0
10°	1600.4	1540.5	1458.4	1376.2	1307.4	1249.7	1183.1	1134.3	1116.5	1076.6	1081.0
12.5°	1653.7	1600.4	1480.6	1396.2	1291.9	1160.9	1014.4	901.2	847.9	796.9	816.9
15°	1729.2	1651.5	1522.7	1400.6	1231.9	1005.5	765.8	639.3	590.4	579.3	577.1
17.5°	1811.3	1729.2	1576.0	1389.5	1109.9	776.9	563.8	490.6	499.4	512.8	510.5
20°	1902.3	1802.4	1616.0	1351.8	916.7	563.8	461.7	459.5	472.8	492.8	497.2
22.5°	1997.7	1911.2	1664.8	1238.6	683.7	452.8	443.9	443.9	452.8	477.2	472.8
25°	2104.3	1988.9	1689.2	1063.2	490.6	417.3	421.7	430.6	435.1	455.0	457.3
27.5°	2186.4	2075.4	1695.9	852.4	399.5	386.2	397.3	408.4	415.1	430.6	437.3
30°	2261.9	2184.2	1660.3	634.8	366.3	359.6	364.0	379.6	392.9	406.2	406.2
32.5°	2357.3	2246.4	1578.2	450.6	346.3	335.2	333.0	339.6	355.2	370.7	370.7
35°	2455.0	2350.7	1447.3	361.8	328.5	313.0	304.1	297.4	304.1	315.2	324.1
37.5°	2597.1	2508.3	1283.0	333.0	315.2	293.0	275.2	259.7	248.6	246.4	253.0
40°	2799.1	2685.9	1072.1	313.0	299.7	273.0	246.4	219.8	195.3	179.8	182.0
42.5°	3105.4	2947.8	843.5	301.9	288.6	250.8	213.1	175.4	144.3	128.7	128.7
45°	3542.7	3294.1	619.3	290.8	275.2	224.2	175.4	131.0	99.9	91.0	93.2
47.5°	4201.9	3711.4	443.9	273.0	257.5	195.3	137.6	93.2	73.3	68.8	71.0
50°	5063.2	4206.4	346.3	253.0	235.3	164.3	102.1	68.8	57.7	55.5	57.7
52.5°	5966.6	4705.8	304.1	235.3	202.0	131.0	75.5	55.5	48.8	46.6	48.8
55°	6739.1	5027.7	264.1	208.7	162.0	97.7	59.9	48.8	42.2	35.5	35.5
57.5°	7520.4	5189.7	208.7	173.1	119.9	73.3	51.1	42.2	35.5	28.9	26.6
60°	8155.2	5305.1	148.7	128.7	84.3	57.7	44.4	37.7	28.9	22.2	20.0
62.5°	8572.6	4974.4	108.8	97.7	62.2	48.8	37.7	31.1	22.2	15.5	15.5
65°	8366.1	4517.1	84.3	68.8	46.6	37.7	31.1	22.2	15.5	8.9	6.7
67.5°	7507.1	3680.3	68.8	51.1	35.5	28.9	24.4	17.8	8.9	2.2	2.2
70°	5600.4	2697.0	55.5	37.7	28.9	22.2	17.8	11.1	4.4	2.2	0.0
72.5°	3063.2	1476.1	44.4	31.1	22.2	17.8	13.3	8.9	4.4	0.0	0.0
75°	1012.2	392.9	33.3	22.2	13.3	11.1	8.9	6.7	2.2	0.0	0.0
77.5°	244.2	102.1	26.6	20.0	11.1	6.7	4.4	2.2	2.2	0.0	0.0
80°	75.5	42.2	20.0	13.3	8.9	6.7	2.2	0.0	0.0	0.0	0.0
82.5°	31.1	20.0	8.9	8.9	6.7	2.2	0.0	0.0	0.0	0.0	0.0
85°	15.5	11.1	6.7	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	4.4	2.2	2.2	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)