

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: P482351

Luminaire Tested: **IFLD-M-SA4C-727-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482351  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-727-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

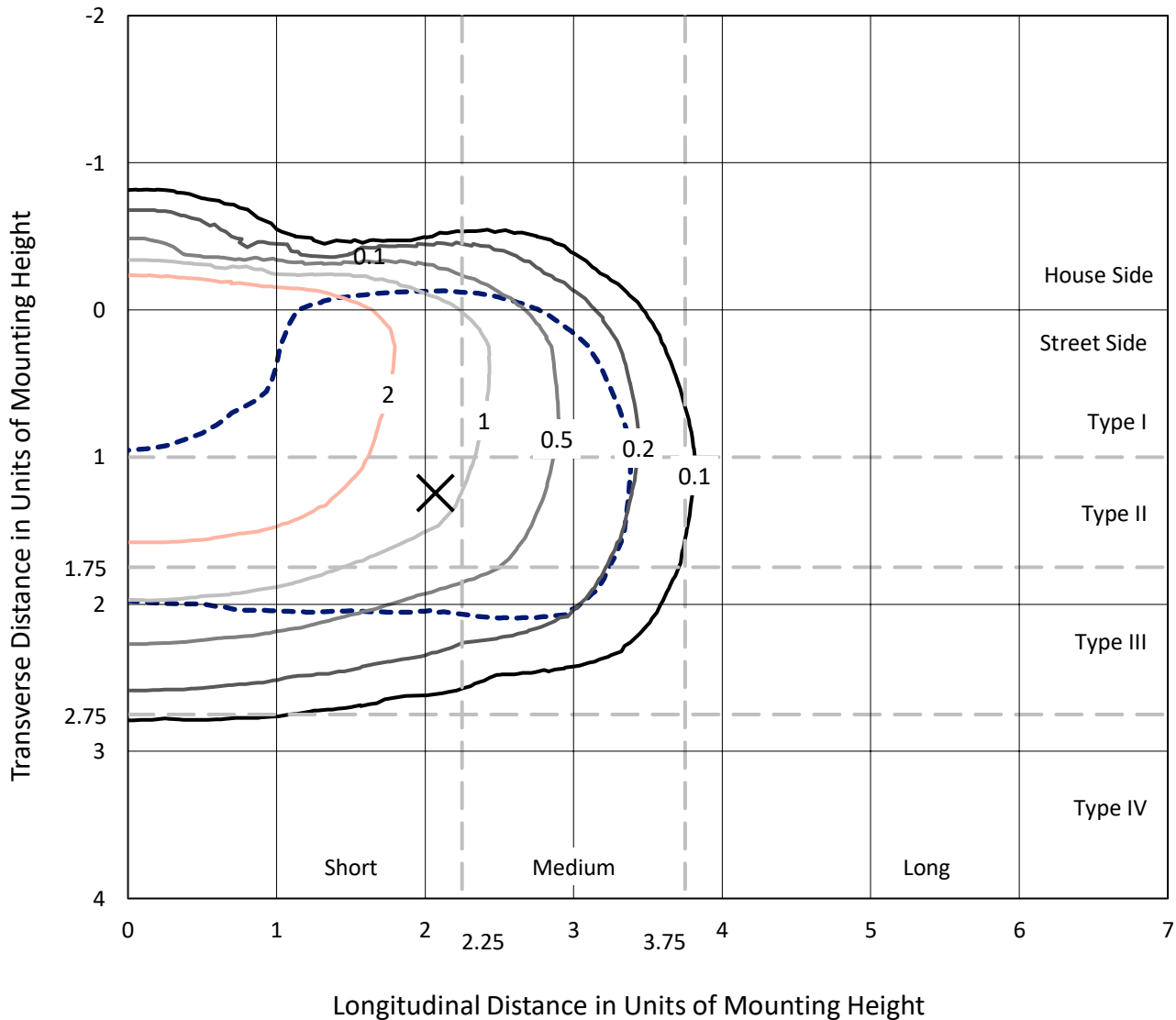
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17643.4 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - 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

REPORT NUMBER: P482351  
 CATALOG NUMBER: IFLD-M-SA4C-727-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

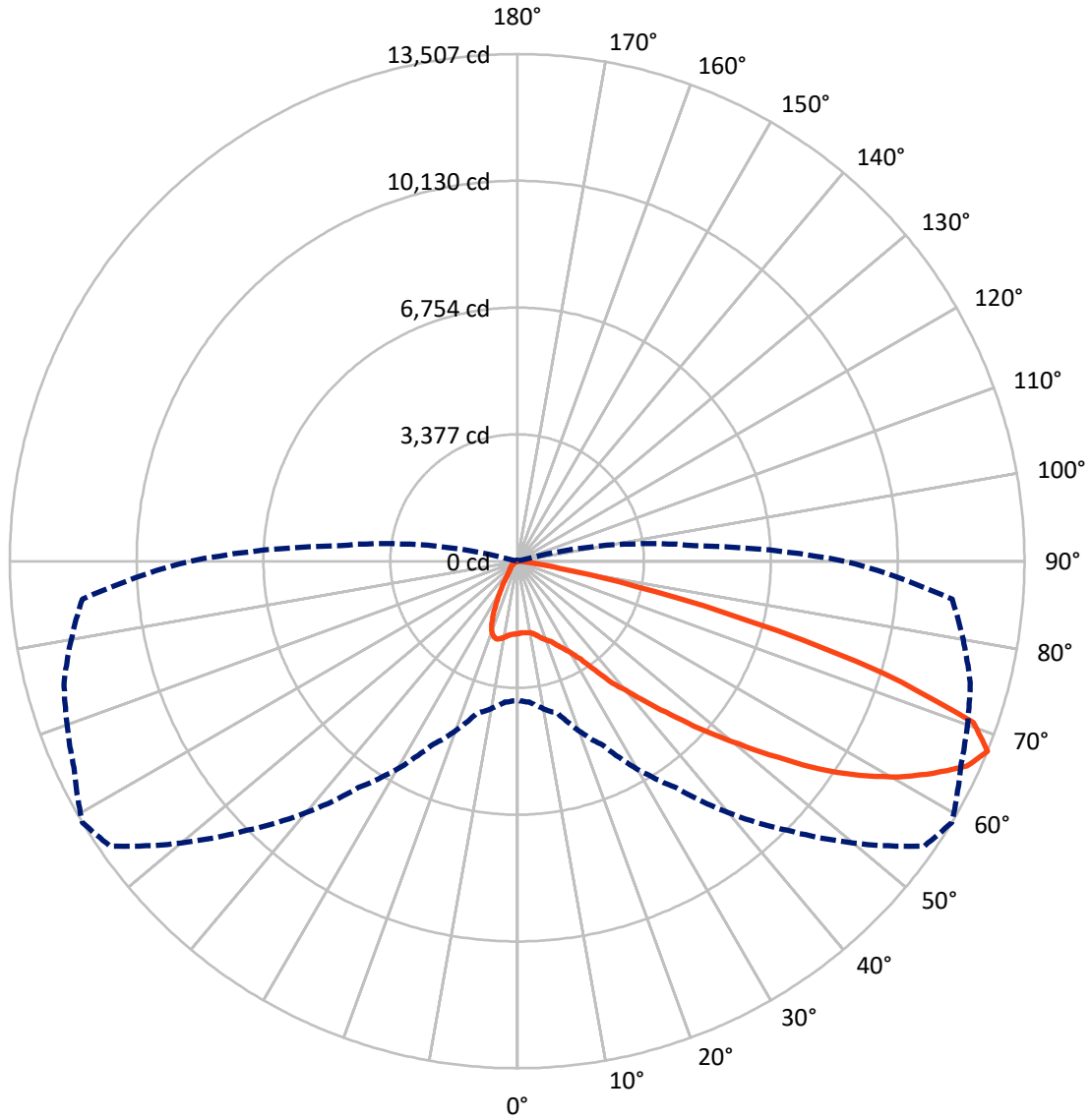
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P482351  
CATALOG NUMBER: IFLD-M-SA4C-727-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P482351  
 CATALOG NUMBER: IFLD-M-SA4C-727-U-T3-HSS

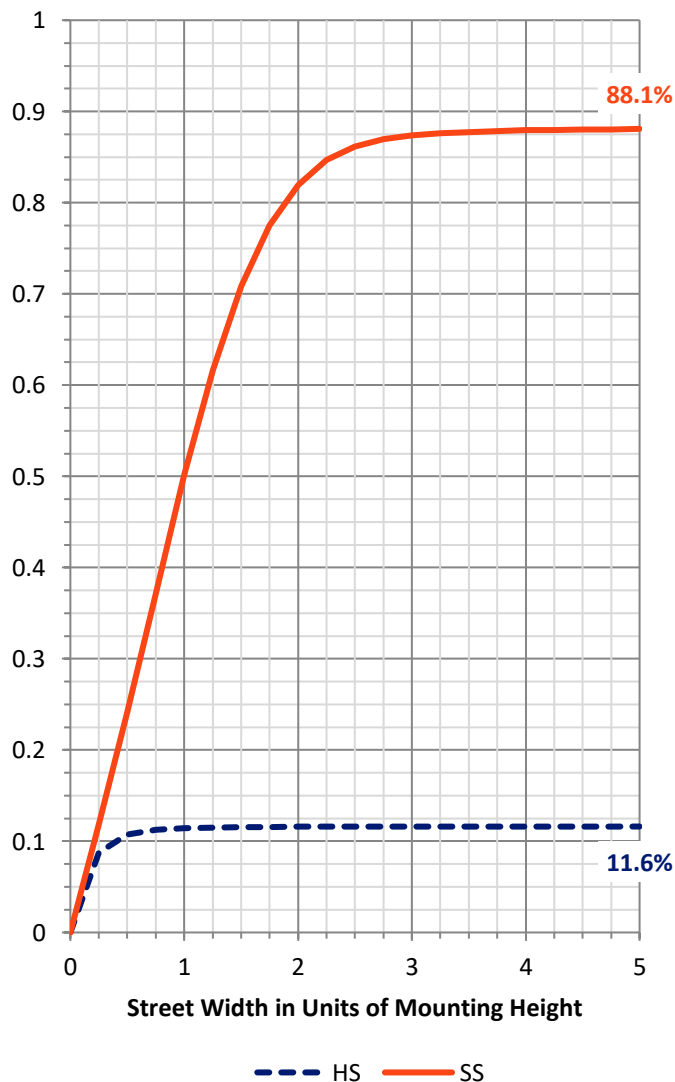
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2072.5	0.0	2072.5
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	15570.9	0.0	15570.9
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	17643.4	0.0	17643.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.8	1.0
10°-20°	531.0	3.0
20°-30°	928.0	5.3
30°-40°	1633.9	9.3
40°-50°	2888.2	16.4
50°-60°	4573.1	25.9
60°-70°	5072.8	28.8
70°-80°	1760.1	10.0
80°-90°	72.5	0.4
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°	17643.4	100.0
0°-180°	17643.4	100.0

**Coefficient of Utilization**

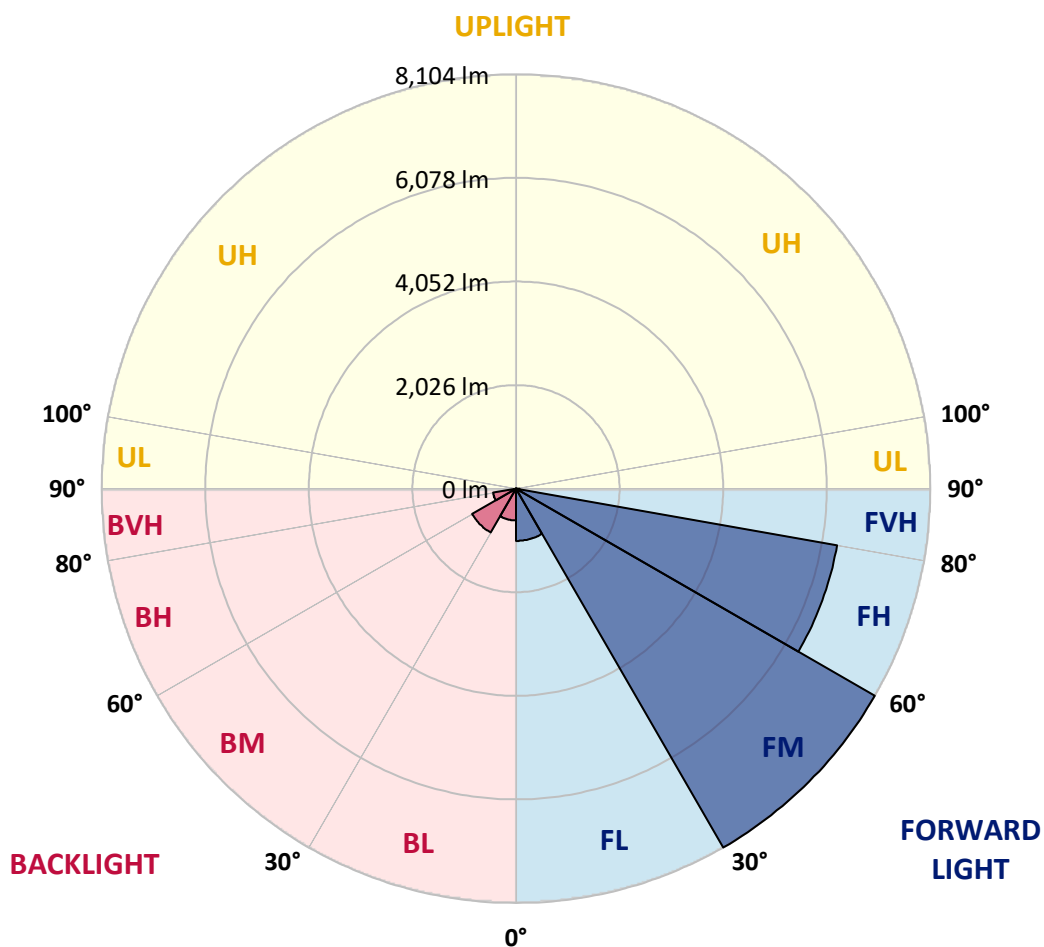


REPORT NUMBER: P482351  
 CATALOG NUMBER: IFLD-M-SA4C-727-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1021.7	5.8			
FM (30°-60°)	8104.3	45.9			
FH (60°-80°)	6377.2	36.1			G3/7500
FVH (80°-90°)	67.8	0.4			G1/100
BL (0°-30°)	621.1	3.5	B2/1000		
BM (30°-60°)	990.9	5.6	B1/1000		
BH (60°-80°)	455.8	2.6	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Short





REPORT NUMBER: P482351

CATALOG NUMBER: IFLD-M-SA4C-727-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2
2.5°	1879.1	1852.3	1876.7	1879.1	1881.5	1903.5	1927.9	1910.8	1908.4	1927.9	1944.9
5°	1803.6	1791.4	1820.6	1835.2	1859.6	1879.1	1918.1	1920.5	1923.0	1944.9	1974.2
7.5°	1771.9	1742.6	1776.7	1793.8	1810.9	1857.2	1903.5	1927.9	1962.0	1988.8	2018.0
10°	1708.5	1730.4	1740.2	1769.4	1818.2	1871.8	1927.9	1940.0	2015.6	2037.5	2108.2
12.5°	1730.4	1745.1	1764.6	1771.9	1825.5	1905.9	1981.5	1986.3	2064.3	2159.4	2196.0
15°	1786.5	1776.7	1784.1	1793.8	1857.2	1923.0	2044.8	2066.8	2139.9	2247.1	2337.3
17.5°	1905.9	1888.9	1876.7	1874.2	1888.9	1949.8	2093.6	2159.4	2227.6	2373.9	2420.2
20°	2205.7	2191.1	2142.3	2015.6	1971.7	1996.1	2152.1	2244.7	2339.7	2503.0	2578.6
22.5°	2661.5	2676.1	2561.5	2383.6	2200.8	2105.8	2244.7	2325.1	2476.2	2683.4	2751.6
25°	3200.1	3170.8	3031.9	2824.8	2537.2	2312.9	2393.4	2483.5	2668.8	2839.4	2866.2
27.5°	3621.7	3587.6	3480.4	3229.3	2980.7	2617.6	2588.3	2644.4	2863.8	3017.3	2988.1
30°	4038.5	4050.7	3977.6	3680.2	3373.1	2990.5	2805.3	2829.6	2997.8	3195.2	3129.4
32.5°	4569.8	4540.6	4499.1	4238.4	3875.2	3465.8	3148.9	3109.9	3183.0	3443.8	3365.8
35°	5064.6	5047.5	4991.5	4728.2	4411.4	3965.4	3655.9	3568.1	3551.1	3841.1	3704.6
37.5°	5496.0	5466.7	5381.4	5213.2	4906.2	4530.8	4192.0	4114.1	4111.6	4311.5	4048.3
40°	5859.1	5881.1	5871.3	5686.1	5517.9	5218.1	4699.0	4574.7	4564.9	4672.2	4518.6
42.5°	6329.5	6380.7	6353.9	6317.3	6115.0	5998.0	5410.7	5220.6	5135.3	5354.6	5215.7
45°	7041.2	7060.7	7077.7	6987.6	6785.3	6809.6	6146.7	5920.0	5898.1	6224.7	5912.7
47.5°	7706.5	7655.4	7774.8	7779.7	7769.9	7657.8	6941.3	6773.1	6802.3	7050.9	6729.2
50°	7872.3	8003.9	8332.9	8393.8	8552.3	8654.6	7823.5	7655.4	7704.1	7986.8	7618.8
52.5°	8001.4	8201.3	8530.3	8976.3	9402.9	9646.6	8810.6	8674.1	8671.7	8844.7	8337.8
55°	8228.1	8350.0	8635.1	9249.3	10060.9	10460.6	10000.0	9780.6	9583.2	9705.1	9083.6
57.5°	8206.2	8252.5	8696.1	9454.0	10582.5	11308.8	10977.3	10767.7	10514.2	10443.6	9941.5
60°	7821.1	7930.8	8428.0	9315.1	10904.2	11969.3	11888.8	11674.4	11238.1	11072.4	10599.5
62.5°	7058.2	7204.5	7594.4	8827.7	10436.2	12003.4	12517.6	12437.2	11949.8	11652.4	11457.5
65°	5720.2	5788.4	6236.9	7589.6	9378.5	11479.4	13261.0	13161.1	12712.6	12269.1	11898.6
67.5°	3704.6	3770.4	4201.8	5418.0	7365.3	10126.7	13231.8	13507.2	13022.2	12488.4	11623.2
70°	1749.9	1732.9	2135.0	3010.0	4718.5	7733.4	12337.3	12880.8	12468.9	11321.0	9653.9
72.5°	533.8	580.1	887.2	1333.2	2422.6	4823.3	9671.0	10180.3	10051.2	9044.6	6444.1
75°	236.4	255.9	348.5	545.9	982.2	1979.0	5973.7	6427.0	6370.9	5335.1	2941.7
77.5°	151.1	165.7	219.4	312.0	446.0	628.8	2751.6	3192.8	3095.3	1874.2	770.2
80°	107.2	114.6	156.0	214.5	280.3	258.3	948.1	1126.0	1079.7	509.4	207.2
82.5°	58.5	63.4	114.6	158.4	187.7	131.6	265.7	331.5	346.1	226.7	99.9
85°	21.9	26.8	70.7	112.1	97.5	60.9	78.0	95.1	124.3	124.3	46.3
87.5°	0.0	2.4	29.2	48.7	24.4	17.1	21.9	26.8	34.1	58.5	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482351  
 CATALOG NUMBER: IFLD-M-SA4C-727-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2	1935.2
2.5°	1957.1	1940.0	1947.4	1959.5	1932.7	1947.4	1918.1	1940.0	1947.4	1918.1	1932.7
5°	1981.5	1998.5	1988.8	1969.3	1952.2	1957.1	1949.8	1932.7	1947.4	1952.2	1942.5
7.5°	2052.2	2032.7	2037.5	2015.6	1981.5	1979.0	1932.7	1920.5	1925.4	1930.3	1913.2
10°	2118.0	2130.1	2105.8	2088.7	2032.7	1996.1	1932.7	1864.5	1857.2	1827.9	1852.3
12.5°	2234.9	2205.7	2196.0	2139.9	2083.8	1962.0	1825.5	1720.7	1632.9	1601.3	1569.6
15°	2332.4	2327.6	2310.5	2225.2	2096.0	1874.2	1615.9	1372.2	1204.0	1099.2	1084.6
17.5°	2466.5	2444.5	2412.9	2278.8	2005.8	1645.1	1204.0	896.9	728.7	662.9	638.6
20°	2568.8	2551.8	2507.9	2266.6	1842.6	1225.9	745.8	570.3	528.9	516.7	519.1
22.5°	2717.5	2663.9	2581.0	2205.7	1545.2	816.5	536.2	509.4	502.1	492.3	494.8
25°	2846.7	2797.9	2624.9	2100.9	1101.6	541.1	497.2	482.6	470.4	458.2	455.8
27.5°	2961.2	2900.3	2671.2	1886.4	689.7	465.5	460.6	443.6	419.2	399.7	392.4
30°	3073.4	3002.7	2683.4	1484.3	465.5	421.6	409.5	382.6	351.0	324.2	319.3
32.5°	3261.0	3175.7	2666.3	1060.2	402.1	375.3	348.5	316.8	270.5	248.6	243.7
35°	3553.5	3424.3	2644.4	623.9	360.7	331.5	290.0	248.6	214.5	192.5	187.7
37.5°	3889.8	3665.6	2581.0	416.8	331.5	292.5	238.8	197.4	168.2	151.1	146.2
40°	4389.5	4019.0	2337.3	341.2	294.9	248.6	192.5	156.0	134.0	121.9	117.0
42.5°	4940.3	4423.6	1962.0	307.1	260.8	212.0	153.5	126.7	109.7	97.5	97.5
45°	5600.8	4845.2	1513.5	280.3	231.5	175.5	126.7	102.4	87.7	78.0	73.1
47.5°	6336.8	5227.9	1021.2	253.5	195.0	143.8	104.8	78.0	63.4	56.1	56.1
50°	6994.9	5566.6	650.7	221.8	170.6	119.4	85.3	63.4	51.2	41.4	39.0
52.5°	7592.0	5825.0	448.5	195.0	146.2	97.5	70.7	51.2	39.0	31.7	31.7
55°	8203.7	5956.6	331.5	168.2	126.7	82.9	58.5	46.3	34.1	26.8	24.4
57.5°	8705.8	6012.7	253.5	146.2	107.2	65.8	51.2	39.0	29.2	21.9	19.5
60°	9134.8	5985.9	197.4	121.9	85.3	56.1	43.9	31.7	24.4	17.1	14.6
62.5°	9385.8	5825.0	156.0	104.8	68.2	48.7	36.6	26.8	17.1	12.2	9.7
65°	9390.7	5483.8	121.9	78.0	51.2	41.4	31.7	21.9	12.2	4.9	2.4
67.5°	8718.0	4745.3	97.5	60.9	41.4	31.7	24.4	17.1	4.9	0.0	0.0
70°	6819.4	3590.1	80.4	48.7	34.1	26.8	17.1	9.7	2.4	0.0	0.0
72.5°	4345.6	2149.6	65.8	39.0	29.2	19.5	12.2	7.3	0.0	0.0	0.0
75°	1818.2	662.9	51.2	34.1	21.9	14.6	9.7	2.4	0.0	0.0	0.0
77.5°	467.9	209.6	41.4	29.2	21.9	12.2	7.3	2.4	0.0	0.0	0.0
80°	138.9	78.0	34.1	24.4	17.1	9.7	4.9	2.4	0.0	0.0	0.0
82.5°	63.4	46.3	29.2	21.9	14.6	9.7	4.9	0.0	0.0	0.0	0.0
85°	24.4	14.6	14.6	12.2	12.2	7.3	2.4	0.0	0.0	0.0	0.0
87.5°	9.7	4.9	4.9	4.9	2.4	2.4	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)