

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: P483520

Luminaire Tested: **IFLD-M-SA4B-727-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483520  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-727-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W  
distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

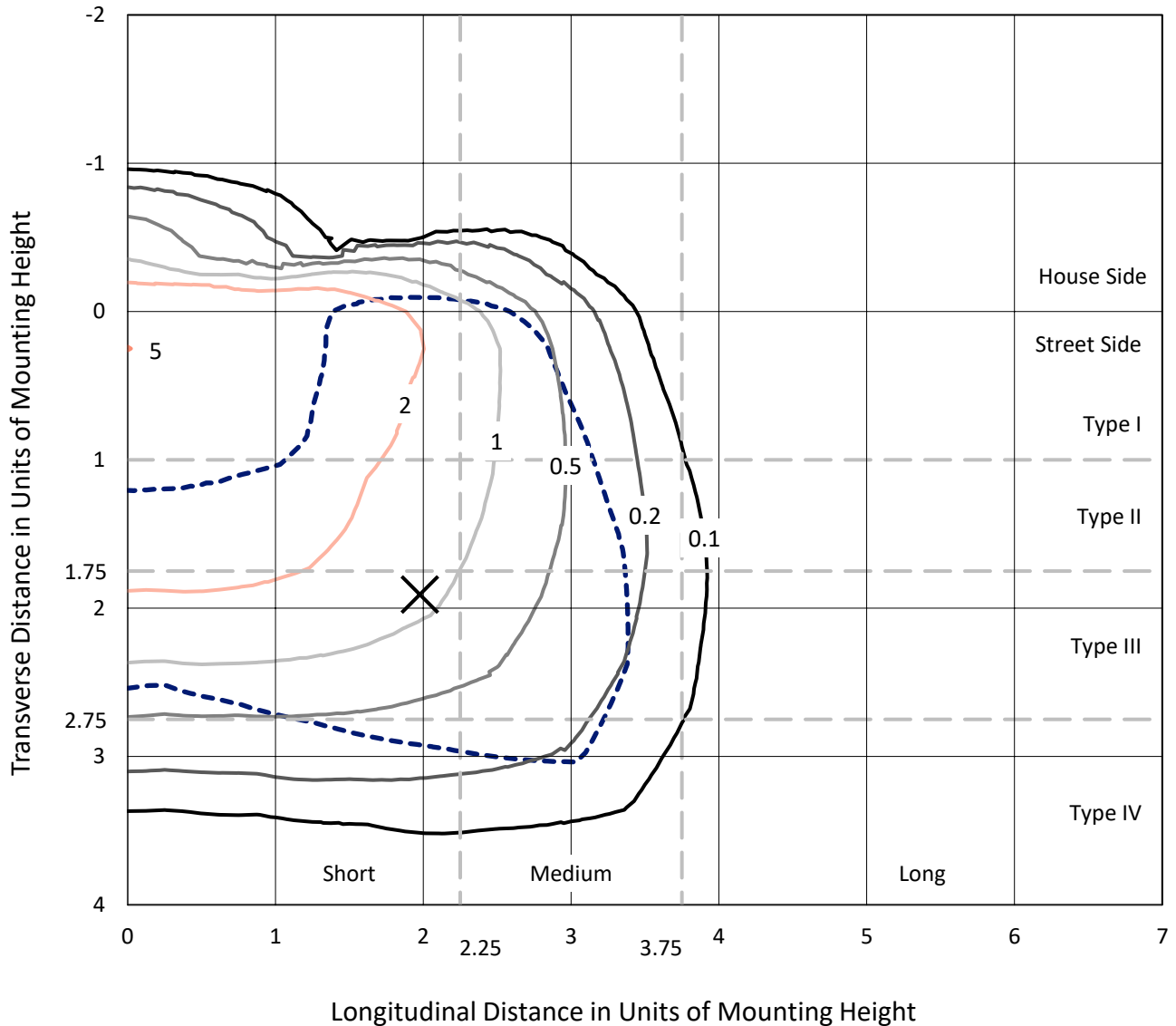
Lumens per Lamp: N/A  
Luminaire Lumens: 14093.1 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 166.1  
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

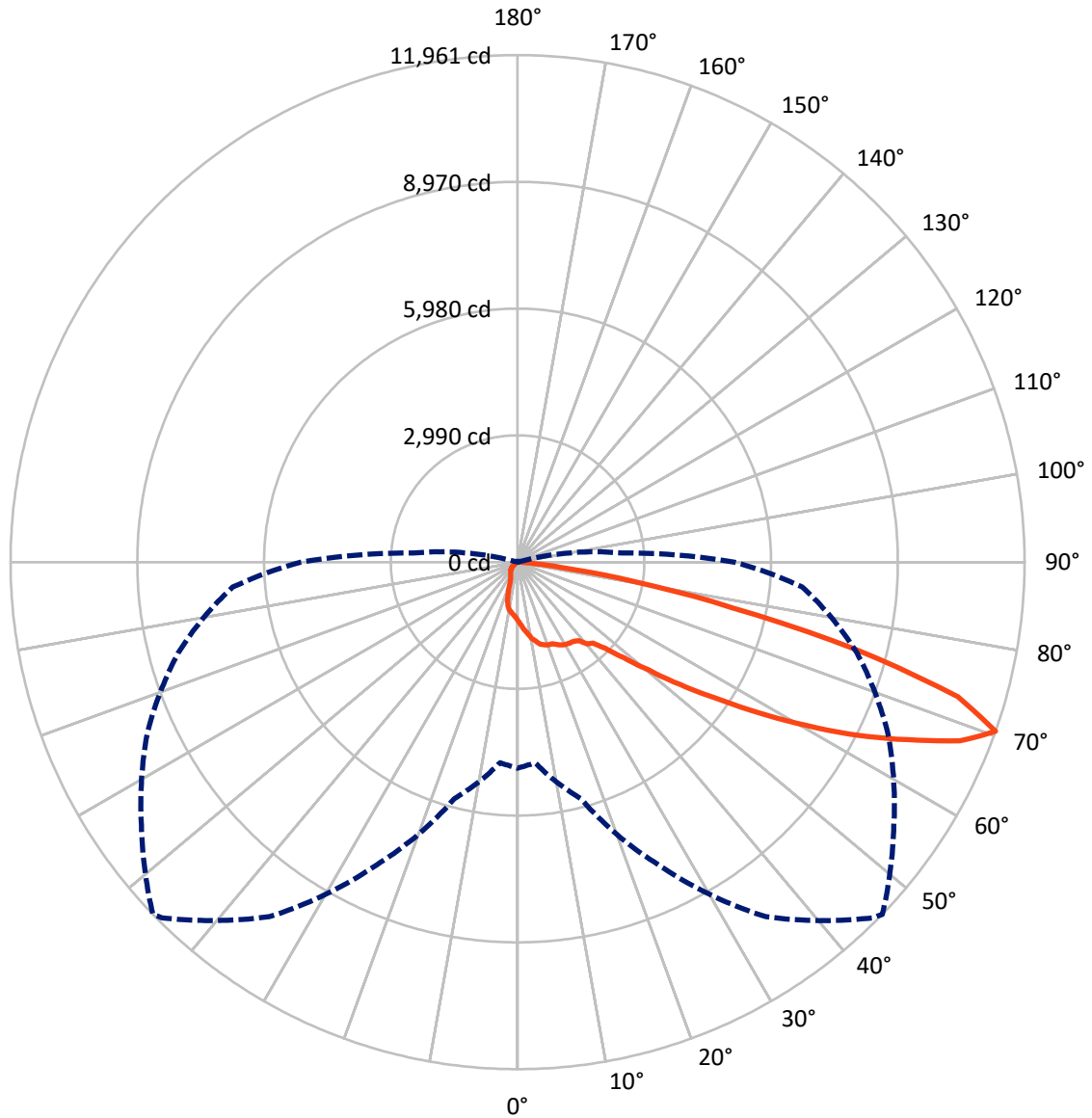
× Max cd  
 - - - 1/2 Max cd



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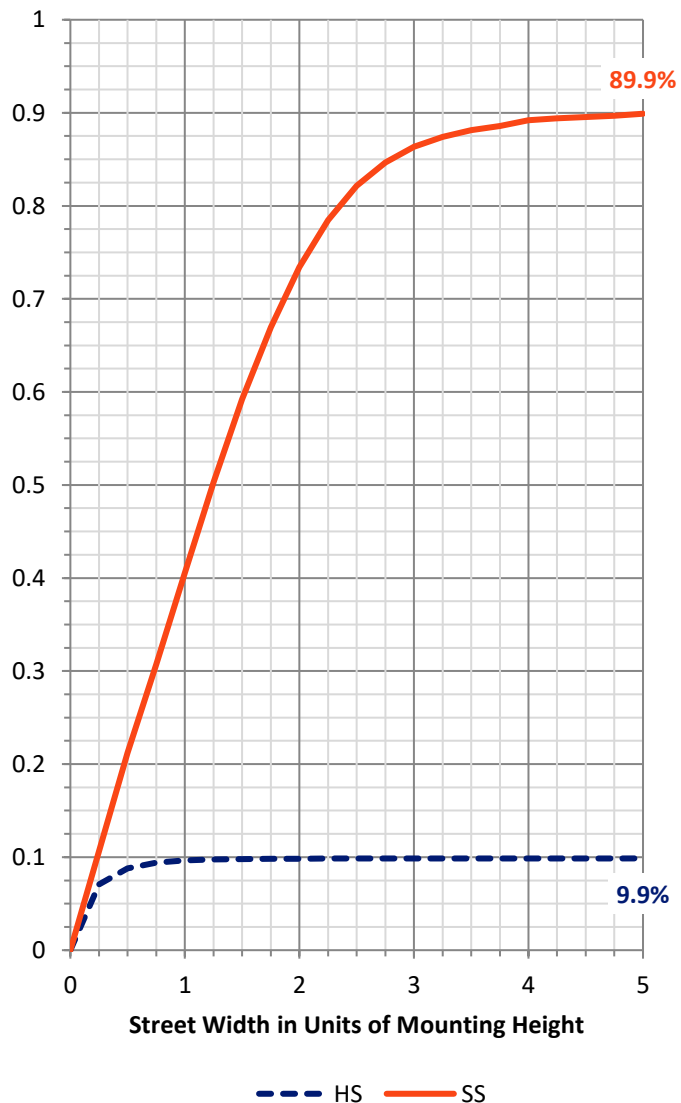
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1402.3	0.0	1402.3
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	12690.8	0.0	12690.8
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	14093.1	0.0	14093.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.9	1.0
10°-20°	416.6	3.0
20°-30°	667.3	4.7
30°-40°	952.5	6.8
40°-50°	1644.7	11.7
50°-60°	3148.9	22.3
60°-70°	4663.0	33.1
70°-80°	2309.5	16.4
80°-90°	152.6	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°	14093.1	100.0
0°-180°	14093.1	100.0

**Coefficient of Utilization**



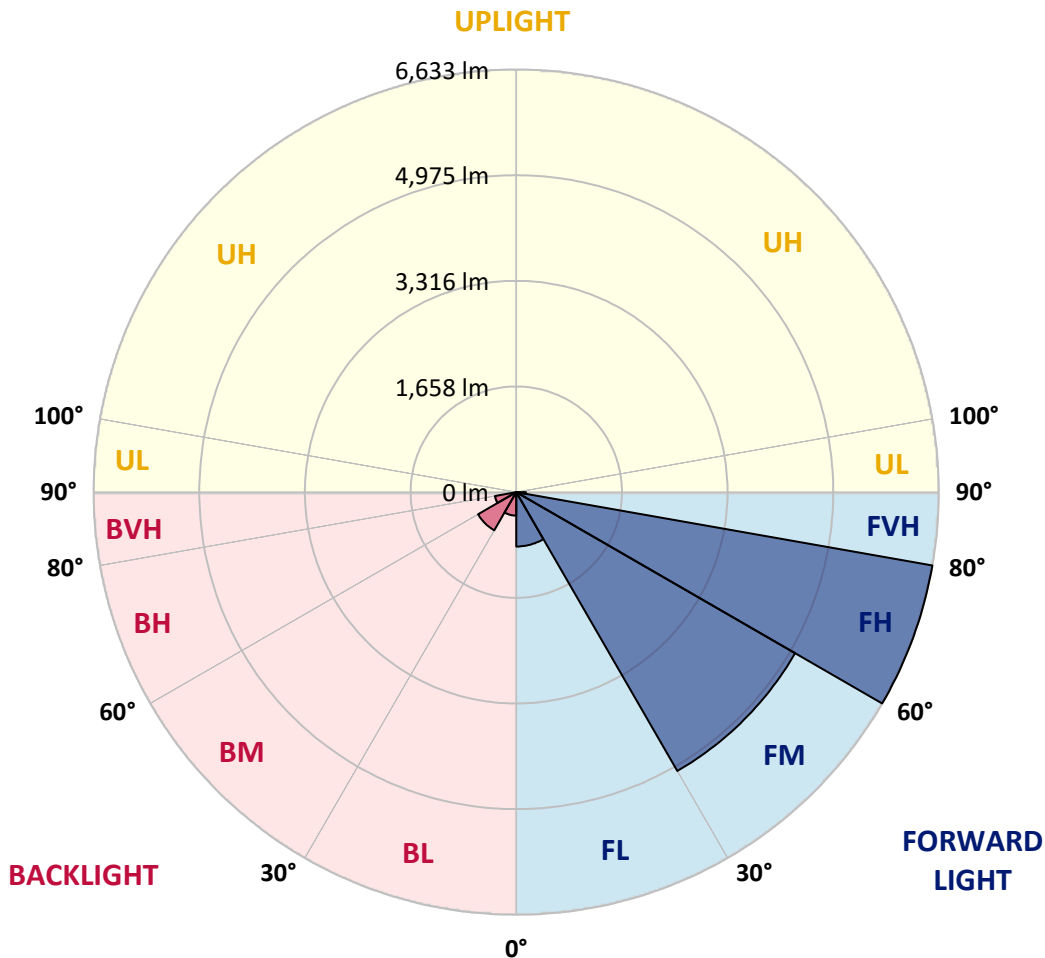
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.4	6.1			
FM (30°-60°)	5053.8	35.9			
FH (60°-80°)	6633.0	47.1			G3/7500
FVH (80°-90°)	150.7	1.1			G2/225
BL (0°-30°)	368.4	2.6	B1/500		
BM (30°-60°)	692.3	4.9	B1/1000		
BH (60°-80°)	339.6	2.4	B1/500		G1/500
BVH (80°-90°)	1.9	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°	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5
2.5°	1543.8	1533.6	1517.4	1511.3	1495.1	1487.0	1474.8	1468.7	1446.4	1424.1	1409.9
5°	1732.4	1708.1	1716.2	1691.9	1639.1	1596.5	1594.5	1547.8	1497.1	1456.5	1401.8
7.5°	1923.1	1902.8	1872.4	1837.9	1779.1	1716.2	1697.9	1653.3	1582.3	1511.3	1438.3
10°	2067.1	2052.9	2026.6	1977.9	1896.7	1825.7	1827.8	1752.7	1677.7	1596.5	1497.1
12.5°	2156.4	2162.5	2123.9	2075.3	2004.3	1915.0	1913.0	1862.3	1777.1	1691.9	1574.2
15°	2245.7	2268.0	2209.1	2152.3	2061.1	1996.1	2008.3	1947.5	1864.3	1766.9	1637.1
17.5°	2259.9	2265.9	2253.8	2170.6	2103.7	2048.9	2050.9	2010.3	1947.5	1842.0	1730.4
20°	2235.5	2231.5	2217.3	2156.4	2111.8	2079.3	2081.3	2071.2	2036.7	1951.5	1799.4
22.5°	2164.5	2164.5	2146.3	2105.7	2085.4	2115.8	2091.5	2130.0	2093.5	2042.8	1917.0
25°	2107.7	2130.0	2119.9	2093.5	2101.6	2142.2	2154.4	2190.9	2184.8	2121.9	1998.2
27.5°	2168.6	2142.2	2148.3	2117.9	2148.3	2209.1	2215.2	2241.6	2239.6	2188.9	2071.2
30°	2209.1	2233.5	2186.8	2119.9	2152.3	2255.8	2251.7	2286.2	2302.5	2241.6	2140.2
32.5°	2339.0	2318.7	2280.1	2190.9	2194.9	2253.8	2272.0	2316.7	2326.8	2290.3	2207.1
35°	2604.7	2574.3	2405.9	2272.0	2251.7	2280.1	2292.3	2379.5	2397.8	2357.2	2278.1
37.5°	3014.5	2945.5	2742.7	2446.5	2355.2	2349.1	2349.1	2464.8	2533.7	2440.4	2383.6
40°	3600.8	3503.4	3284.3	2769.0	2491.1	2515.5	2539.8	2602.7	2594.6	2533.7	2521.6
42.5°	4347.3	4272.2	4034.9	3310.7	2750.8	2629.1	2608.8	2694.0	2821.8	2797.4	2789.3
45°	4970.1	4974.1	4822.0	4053.1	3199.1	2890.8	2905.0	2969.9	3184.9	3166.6	3164.6
47.5°	5424.5	5367.7	5345.4	4769.2	3852.3	3387.8	3367.5	3412.1	3692.1	3807.7	3860.4
50°	5838.3	5799.8	5747.0	5465.1	4637.4	4010.5	3990.3	3994.3	4422.4	4584.6	4714.5
52.5°	6351.5	6400.2	6225.8	6053.3	5653.7	4820.0	4797.6	4718.5	5250.0	5473.2	5627.3
55°	6984.5	6893.2	6696.4	6785.7	6625.4	5694.3	5653.7	5560.4	6193.3	6286.6	6448.9
57.5°	7124.4	7055.5	7258.3	7574.8	7729.0	6720.8	6704.5	6536.2	6986.5	6901.3	7359.8
60°	7473.4	7491.6	7773.6	8402.5	8670.2	7905.5	7826.3	7530.2	7755.3	7771.6	8260.5
62.5°	7832.4	7789.8	8420.7	9025.2	9437.1	9027.3	9000.9	8412.6	8668.2	8461.3	9108.4
65°	7568.7	7633.6	8536.4	9548.6	10431.1	10124.7	10102.4	9262.6	9402.6	9144.9	9453.3
67.5°	6631.5	6499.6	7763.5	9309.3	10942.3	11275.0	11250.6	10189.7	9816.4	9140.9	8737.2
70°	4860.5	4746.9	5777.5	7883.1	10209.9	11863.3	11960.6	10834.8	9648.0	8288.9	6741.0
72.5°	2381.6	2383.6	3237.6	5345.4	8077.9	10812.4	10861.1	9934.1	8288.9	6110.1	3817.8
75°	703.9	712.0	1198.9	2621.0	5221.6	8211.8	8266.5	7540.3	5745.0	3156.5	1302.4
77.5°	257.6	257.6	397.6	983.9	2604.7	5183.1	5179.0	4629.3	2909.0	1069.1	304.3
80°	133.9	140.0	206.9	401.7	1127.9	2700.1	2801.5	2265.9	1105.6	450.3	89.3
82.5°	54.8	60.9	113.6	206.9	541.6	947.4	1036.6	888.5	480.8	314.4	40.6
85°	16.2	18.3	54.8	115.6	213.0	237.3	263.7	298.2	302.3	243.4	18.3
87.5°	2.0	2.0	22.3	38.5	46.7	50.7	58.8	58.8	154.2	170.4	10.1
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°	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5
2.5°	1393.6	1383.5	1367.3	1330.8	1322.6	1296.3	1294.2	1269.9	1278.0	1261.8	1255.7
5°	1383.5	1361.2	1316.6	1288.2	1259.8	1241.5	1229.3	1219.2	1217.2	1209.0	1205.0
7.5°	1401.8	1371.3	1302.4	1257.7	1209.0	1192.8	1166.4	1164.4	1150.2	1136.0	1136.0
10°	1462.6	1407.8	1332.8	1257.7	1194.8	1142.1	1081.2	1036.6	1020.4	983.9	987.9
12.5°	1511.3	1462.6	1353.1	1276.0	1180.6	1061.0	927.1	823.6	774.9	728.3	746.5
15°	1580.3	1509.3	1391.6	1280.0	1125.9	919.0	699.9	584.2	539.6	529.5	527.4
17.5°	1655.3	1580.3	1440.3	1269.9	1014.3	710.0	515.3	448.3	456.4	468.6	466.6
20°	1738.5	1647.2	1476.8	1235.4	837.8	515.3	421.9	419.9	432.1	450.3	454.4
22.5°	1825.7	1746.6	1521.5	1132.0	624.8	413.8	405.7	405.7	413.8	436.1	432.1
25°	1923.1	1817.6	1543.8	971.7	448.3	381.4	385.4	393.5	397.6	415.9	417.9
27.5°	1998.2	1896.7	1549.9	779.0	365.1	353.0	363.1	373.3	379.3	393.5	399.6
30°	2067.1	1996.1	1517.4	580.2	334.7	328.6	332.7	346.9	359.1	371.2	371.2
32.5°	2154.4	2052.9	1442.3	411.8	316.5	306.3	304.3	310.4	324.6	338.8	338.8
35°	2243.6	2148.3	1322.6	330.7	300.2	286.0	277.9	271.8	277.9	288.1	296.2
37.5°	2373.5	2292.3	1172.5	304.3	288.1	267.8	251.5	237.3	227.2	225.2	231.3
40°	2558.1	2454.6	979.8	286.0	273.9	249.5	225.2	200.8	178.5	164.3	166.3
42.5°	2838.0	2694.0	770.9	275.9	263.7	229.2	194.7	160.3	131.9	117.7	117.7
45°	3237.6	3010.4	566.0	265.7	251.5	204.9	160.3	119.7	91.3	83.2	85.2
47.5°	3840.1	3391.8	405.7	249.5	235.3	178.5	125.8	85.2	66.9	62.9	64.9
50°	4627.2	3844.2	316.5	231.3	215.0	150.1	93.3	62.9	52.7	50.7	52.7
52.5°	5452.9	4300.6	277.9	215.0	184.6	119.7	69.0	50.7	44.6	42.6	44.6
55°	6158.8	4594.8	241.4	190.7	148.1	89.3	54.8	44.6	38.5	32.5	32.5
57.5°	6872.9	4742.9	190.7	158.2	109.5	66.9	46.7	38.5	32.5	26.4	24.3
60°	7453.1	4848.4	135.9	117.7	77.1	52.7	40.6	34.5	26.4	20.3	18.3
62.5°	7834.5	4546.1	99.4	89.3	56.8	44.6	34.5	28.4	20.3	14.2	14.2
65°	7645.8	4128.2	77.1	62.9	42.6	34.5	28.4	20.3	14.2	8.1	6.1
67.5°	6860.7	3363.4	62.9	46.7	32.5	26.4	22.3	16.2	8.1	2.0	2.0
70°	5118.2	2464.8	50.7	34.5	26.4	20.3	16.2	10.1	4.1	2.0	0.0
72.5°	2799.5	1349.0	40.6	28.4	20.3	16.2	12.2	8.1	4.1	0.0	0.0
75°	925.0	359.1	30.4	20.3	12.2	10.1	8.1	6.1	2.0	0.0	0.0
77.5°	223.1	93.3	24.3	18.3	10.1	6.1	4.1	2.0	2.0	0.0	0.0
80°	69.0	38.5	18.3	12.2	8.1	6.1	2.0	0.0	0.0	0.0	0.0
82.5°	28.4	18.3	8.1	8.1	6.1	2.0	0.0	0.0	0.0	0.0	0.0
85°	14.2	10.1	6.1	4.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	4.1	2.0	2.0	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)