

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: P476631

Luminaire Tested: **IFLD-S-SA2B-750-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476631  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-750-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

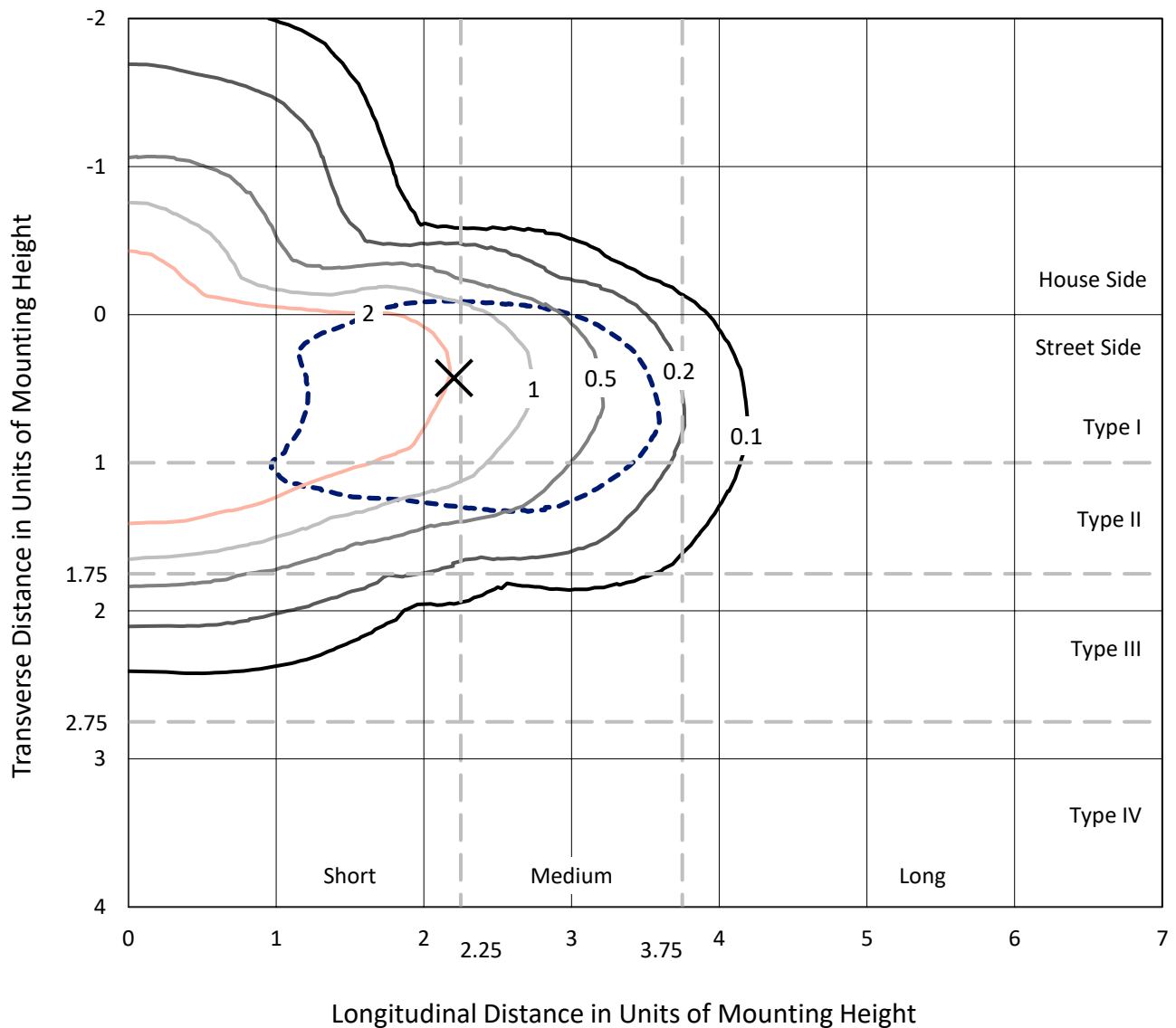
Lumens per Lamp: N/A  
Luminaire Lumens: 11665.1 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4  
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

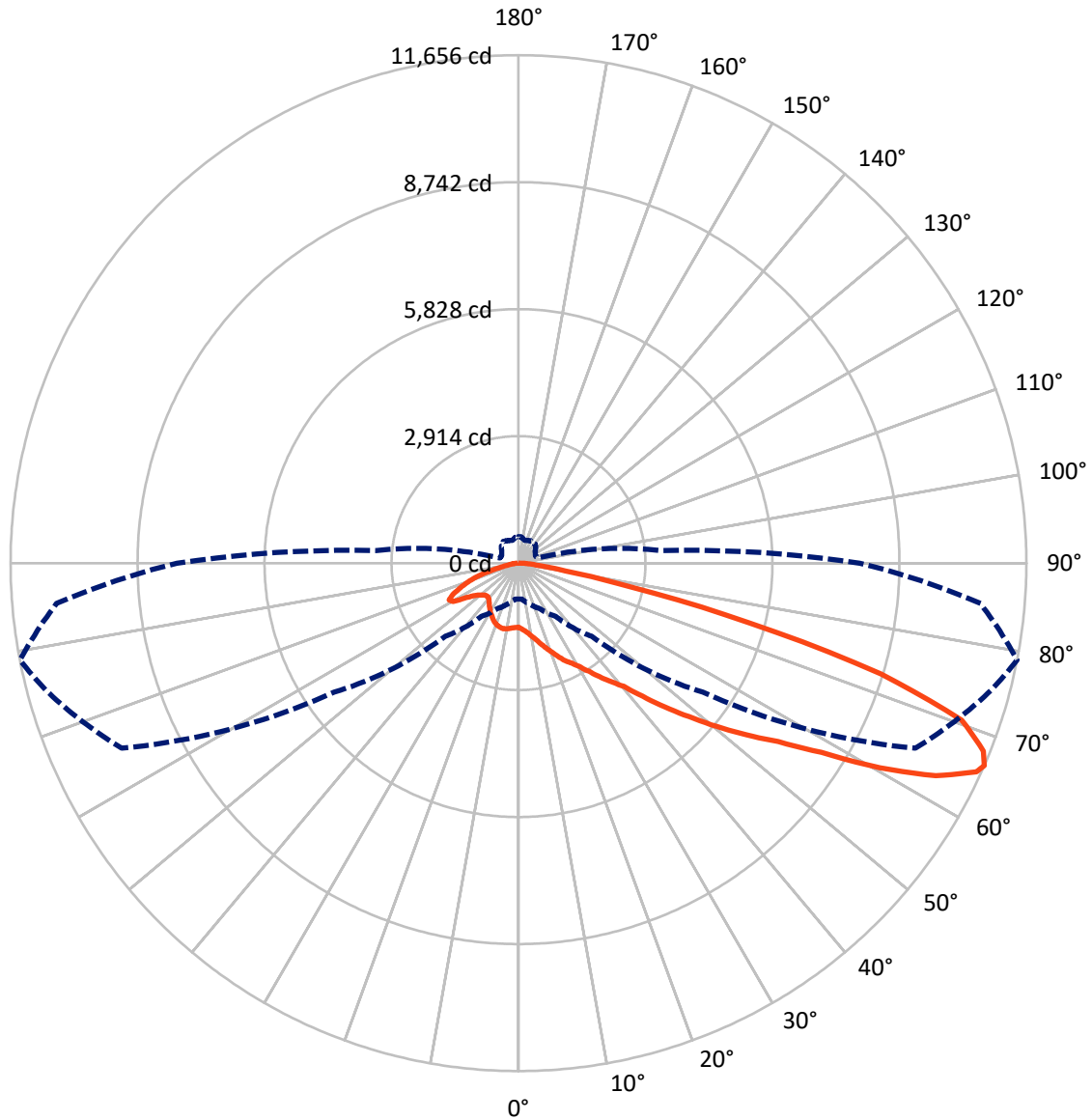
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 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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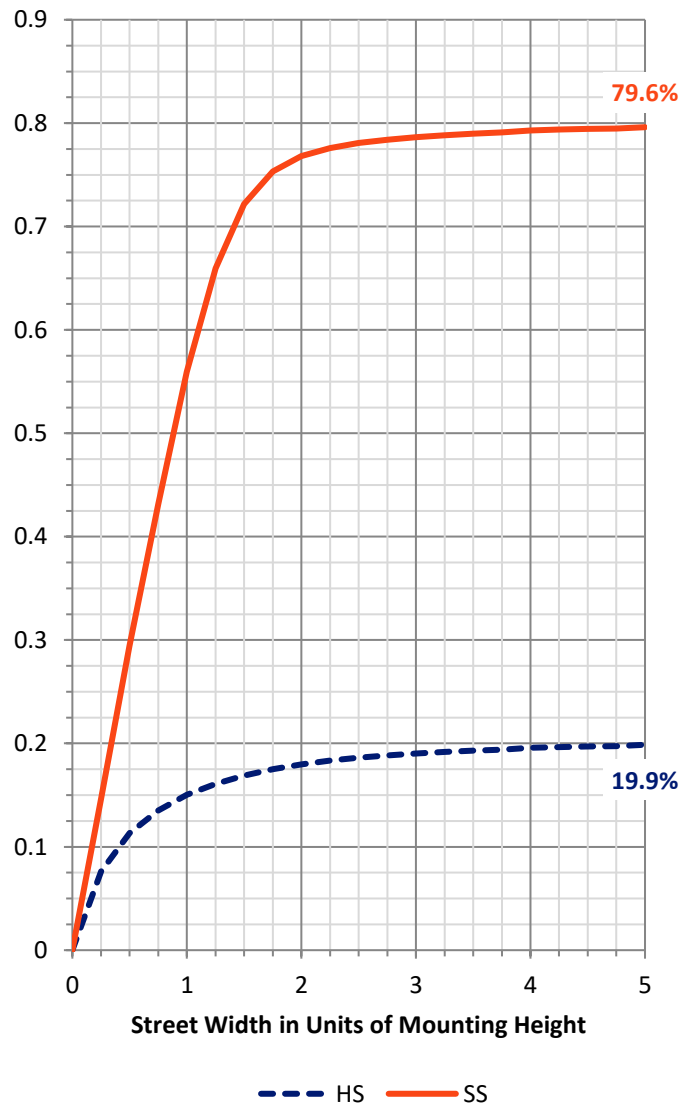
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2355.6	0.0	2355.6
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	9309.5	0.0	9309.5
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	11665.1	0.0	11665.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	1.2
10°-20°	447.3	3.8
20°-30°	767.7	6.6
30°-40°	1186.0	10.2
40°-50°	1899.6	16.3
50°-60°	2836.3	24.3
60°-70°	2914.3	25.0
70°-80°	1291.9	11.1
80°-90°	177.3	1.5
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°	11665.1	100.0
0°-180°	11665.1	100.0

**Coefficient of Utilization**

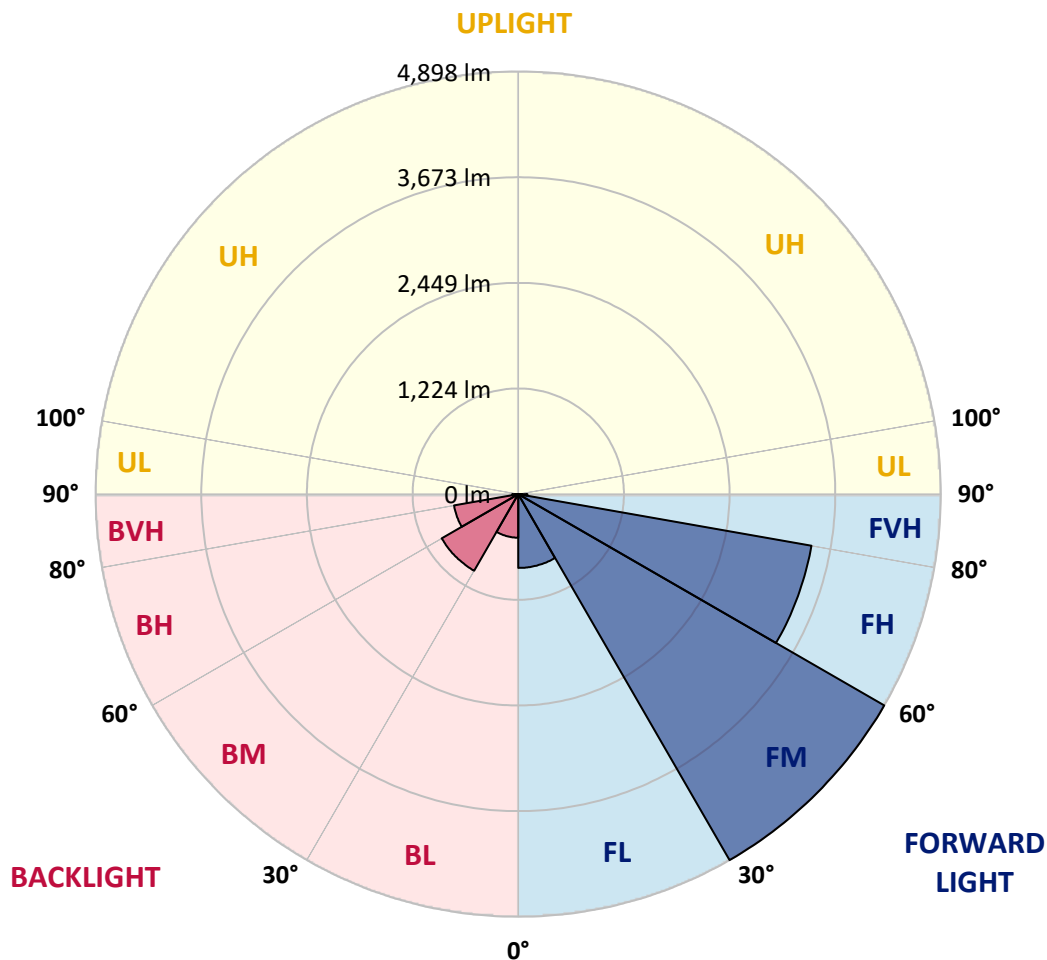


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	855.1	7.3			
FM (30°-60°)	4897.8	42.0			
FH (60°-80°)	3450.3	29.6			G2/5000
FVH (80°-90°)	106.3	0.9			G2/225
BL (0°-30°)	504.7	4.3	B2/1000		
BM (30°-60°)	1024.1	8.8	B2/2500		
BH (60°-80°)	755.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	70.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0
2.5°	1566.6	1567.9	1567.9	1562.8	1564.1	1567.9	1553.8	1523.0	1523.0	1517.9	1508.9
5°	1662.9	1656.5	1647.5	1648.8	1643.6	1643.6	1628.2	1598.7	1573.1	1562.8	1535.9
7.5°	1675.7	1682.1	1680.8	1696.2	1703.9	1703.9	1711.6	1687.3	1648.8	1624.4	1597.4
10°	1701.4	1684.7	1683.4	1719.3	1730.9	1757.8	1788.6	1775.8	1743.7	1709.1	1673.1
12.5°	1716.8	1727.0	1727.0	1745.0	1771.9	1811.7	1865.6	1890.0	1839.9	1804.0	1748.8
15°	1739.9	1725.8	1766.8	1782.2	1833.5	1861.8	1938.7	2001.6	1968.3	1924.6	1837.4
17.5°	1750.1	1741.1	1764.2	1792.5	1879.7	1922.1	2015.7	2103.0	2074.8	2046.5	1956.7
20°	1802.7	1801.5	1811.7	1834.8	1897.7	1981.1	2097.8	2218.5	2228.7	2177.4	2055.5
22.5°	1931.0	1914.4	1914.4	1905.4	1932.3	2018.3	2176.1	2342.9	2389.1	2328.8	2167.1
25°	2049.1	2072.2	2058.1	2017.0	2006.7	2051.7	2232.6	2475.1	2536.7	2480.2	2318.5
27.5°	2200.5	2208.2	2232.6	2177.4	2106.8	2120.9	2294.2	2549.5	2676.5	2600.8	2404.5
30°	2418.6	2404.5	2399.4	2337.8	2245.4	2226.2	2364.7	2658.6	2860.0	2753.5	2505.9
32.5°	2566.2	2600.8	2599.5	2514.9	2403.2	2360.9	2452.0	2761.2	3056.3	2957.5	2693.2
35°	2858.7	2894.6	2866.4	2742.0	2611.1	2526.4	2577.7	2894.6	3280.9	3203.9	2852.3
37.5°	3232.1	3316.8	3256.5	3026.8	2842.0	2749.7	2752.2	3039.6	3510.5	3447.7	3023.0
40°	3490.0	3604.2	3520.8	3305.2	3108.9	3021.7	2987.0	3211.6	3785.1	3718.4	3289.8
42.5°	3809.5	3904.4	3860.8	3647.8	3418.1	3343.7	3274.4	3499.0	4204.7	4173.9	3632.4
45°	4158.5	4203.4	4189.3	4054.6	3799.2	3773.6	3620.9	3877.5	4698.7	4711.5	4061.0
47.5°	4483.1	4507.5	4534.4	4436.9	4277.8	4299.6	4019.9	4282.9	5178.5	5263.2	4538.3
50°	4566.5	4649.9	4712.8	4778.2	4812.9	4960.4	4460.0	4780.8	5730.3	5894.5	5069.5
52.5°	4481.8	4475.4	4666.6	4871.9	5218.3	5527.5	5059.2	5399.2	6217.8	6542.5	5555.8
55°	4096.9	4084.1	4392.0	4664.0	5340.2	5843.2	5915.0	6223.0	6806.8	7228.9	6214.0
57.5°	3423.3	3343.7	3679.9	4126.4	5075.9	5877.8	6774.7	7445.8	7712.6	8193.8	7218.6
60°	2300.6	2267.2	2589.3	3121.8	4121.3	5386.4	7289.2	8976.5	8989.3	9530.8	8777.6
62.5°	1416.5	1422.9	1629.5	2028.6	2885.7	4270.1	7067.2	10199.3	10201.8	10744.6	10060.7
65°	926.4	930.2	1097.0	1317.7	1802.7	2895.9	5844.5	10295.5	11044.8	11549.1	10648.3
66°	825.0	826.3	970.0	1149.6	1493.5	2369.9	5161.9	10045.3	11234.7	11655.6	10640.6
67.5°	695.4	712.1	827.6	966.2	1165.0	1702.7	4095.6	9321.6	11137.2	11506.7	10399.4
70°	544.0	553.0	644.1	785.2	873.8	985.4	2434.0	7598.4	10194.1	10793.3	9521.8
72.5°	436.2	443.9	513.2	637.7	709.5	649.2	1325.4	5513.4	8052.7	8691.6	7489.4
75°	368.2	369.5	402.9	501.7	583.8	487.6	705.7	3538.8	5167.0	5464.7	4588.3
77.5°	297.7	302.8	325.9	382.4	469.6	383.6	420.9	1982.4	2594.4	2616.2	2120.9
80°	242.5	245.1	259.2	278.4	358.0	283.6	284.8	967.4	1112.4	1086.8	862.2
82.5°	191.2	193.7	210.4	206.6	263.0	202.7	177.1	465.8	512.0	501.7	396.5
85°	107.8	107.8	165.5	165.5	166.8	128.3	107.8	219.4	270.7	252.8	186.0
87.5°	34.6	35.9	50.0	52.6	83.4	57.7	52.6	82.1	128.3	112.9	66.7
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°	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0
2.5°	1503.8	1483.2	1474.3	1444.8	1437.1	1417.8	1408.8	1397.3	1393.4	1376.8	1392.1
5°	1515.3	1508.9	1473.0	1435.8	1407.5	1394.7	1375.5	1349.8	1347.2	1324.1	1321.6
7.5°	1564.1	1542.3	1479.4	1439.6	1383.2	1351.1	1308.7	1295.9	1279.2	1271.5	1288.2
10°	1639.8	1584.6	1490.9	1390.9	1321.6	1283.1	1252.3	1243.3	1244.6	1239.5	1231.8
12.5°	1693.7	1641.1	1471.7	1349.8	1260.0	1222.8	1220.2	1229.2	1243.3	1236.9	1245.9
15°	1770.7	1671.9	1457.6	1281.8	1210.0	1199.7	1198.4	1225.3	1224.1	1224.1	1222.8
17.5°	1842.5	1702.7	1406.3	1222.8	1157.3	1165.0	1174.0	1172.7	1185.6	1190.7	1199.7
20°	1933.6	1738.6	1334.4	1163.8	1117.6	1115.0	1113.7	1115.0	1127.8	1135.5	1129.1
22.5°	2013.2	1746.3	1274.1	1107.3	1070.1	1059.8	1043.1	1059.8	1053.4	1056.0	1063.7
25°	2082.5	1747.6	1188.1	1065.0	1022.6	999.5	986.7	985.4	973.9	972.6	972.6
27.5°	2140.2	1703.9	1112.4	1005.9	966.2	944.4	943.1	929.0	899.4	880.2	882.8
30°	2185.1	1670.6	1059.8	954.6	916.1	912.3	900.7	868.6	830.2	805.8	805.8
32.5°	2264.6	1603.9	988.0	902.0	882.8	877.6	850.7	822.5	786.5	763.4	759.6
35°	2323.7	1542.3	940.5	857.1	848.1	837.9	814.8	784.0	773.7	768.6	772.4
37.5°	2390.4	1473.0	882.8	818.6	827.6	808.3	781.4	767.3	803.2	794.2	798.1
40°	2496.9	1424.2	826.3	795.5	804.5	782.7	748.0	742.9	787.8	755.7	748.0
42.5°	2691.9	1422.9	791.7	760.9	767.3	750.6	719.8	717.2	735.2	696.7	685.2
45°	2934.4	1467.9	766.0	735.2	730.1	727.5	717.2	705.7	690.3	640.3	627.4
47.5°	3224.4	1541.0	760.9	696.7	703.1	724.9	712.1	682.6	642.8	610.7	604.3
50°	3576.0	1692.4	748.0	668.5	680.0	714.7	704.4	663.4	627.4	606.9	603.1
52.5°	3964.7	1883.6	731.4	624.9	650.5	705.7	710.8	672.3	619.7	601.8	599.2
55°	4422.8	2165.9	712.1	577.4	615.9	696.7	710.8	646.7	609.5	609.5	606.9
57.5°	5327.4	2674.0	672.3	533.8	585.1	680.0	690.3	648.0	610.7	610.7	605.6
60°	6654.1	3466.9	596.6	500.4	555.6	656.9	674.9	628.7	596.6	604.3	603.1
62.5°	7692.1	3708.1	532.5	468.3	526.1	614.6	654.4	608.2	580.0	608.2	610.7
65°	7914.1	3464.3	467.0	433.7	485.0	573.5	624.9	578.7	555.6	610.7	613.3
66°	7834.5	3274.4	443.9	423.4	467.0	553.0	606.9	568.4	542.7	608.2	609.5
67.5°	7480.4	2989.6	418.3	401.6	442.7	523.5	586.4	554.3	522.2	600.5	588.9
70°	6710.5	2535.4	374.7	363.1	408.0	474.7	538.9	518.4	490.1	553.0	532.5
72.5°	5168.3	2026.0	328.5	329.8	368.2	424.7	491.4	477.3	452.9	485.0	472.2
75°	3147.4	1294.6	286.1	288.7	320.8	377.2	446.5	436.2	406.7	424.7	418.3
77.5°	1394.7	641.5	241.2	246.4	272.0	332.3	388.8	372.1	341.3	345.2	342.6
80°	541.5	304.1	196.3	202.7	219.4	265.6	322.1	306.7	279.7	274.6	272.0
82.5°	260.5	169.4	151.4	154.0	160.4	211.7	277.1	257.9	222.0	198.9	198.9
85°	130.9	105.2	106.5	97.5	106.5	143.7	187.3	156.5	129.6	115.5	118.0
87.5°	52.6	52.6	52.6	44.9	47.5	68.0	87.2	59.0	53.9	32.1	32.1
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)