

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: P480024

Luminaire Tested: **IFLD-S-SA2B-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480024
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

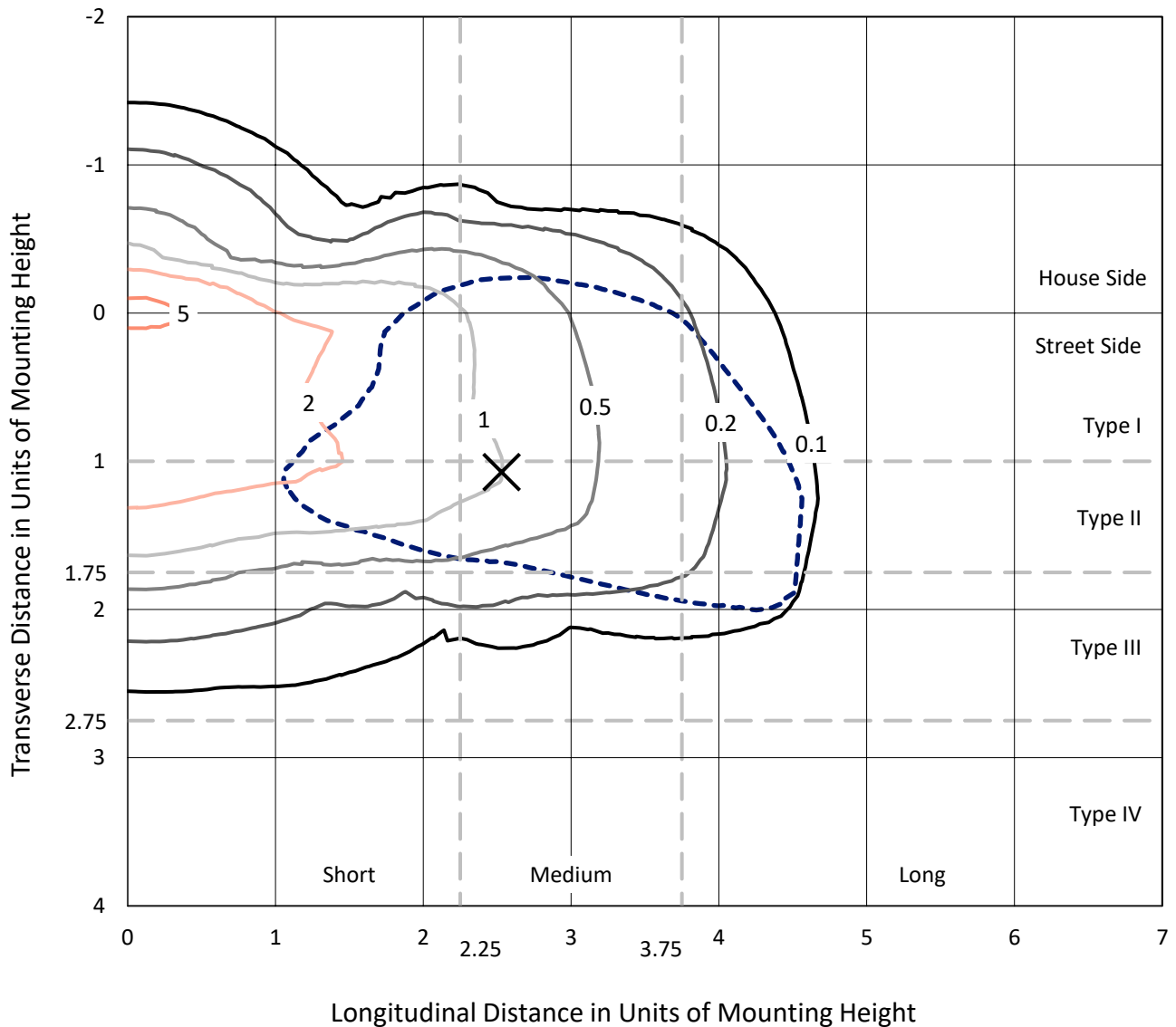
Lumens per Lamp: N/A
Luminaire Lumens: 10366.4 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

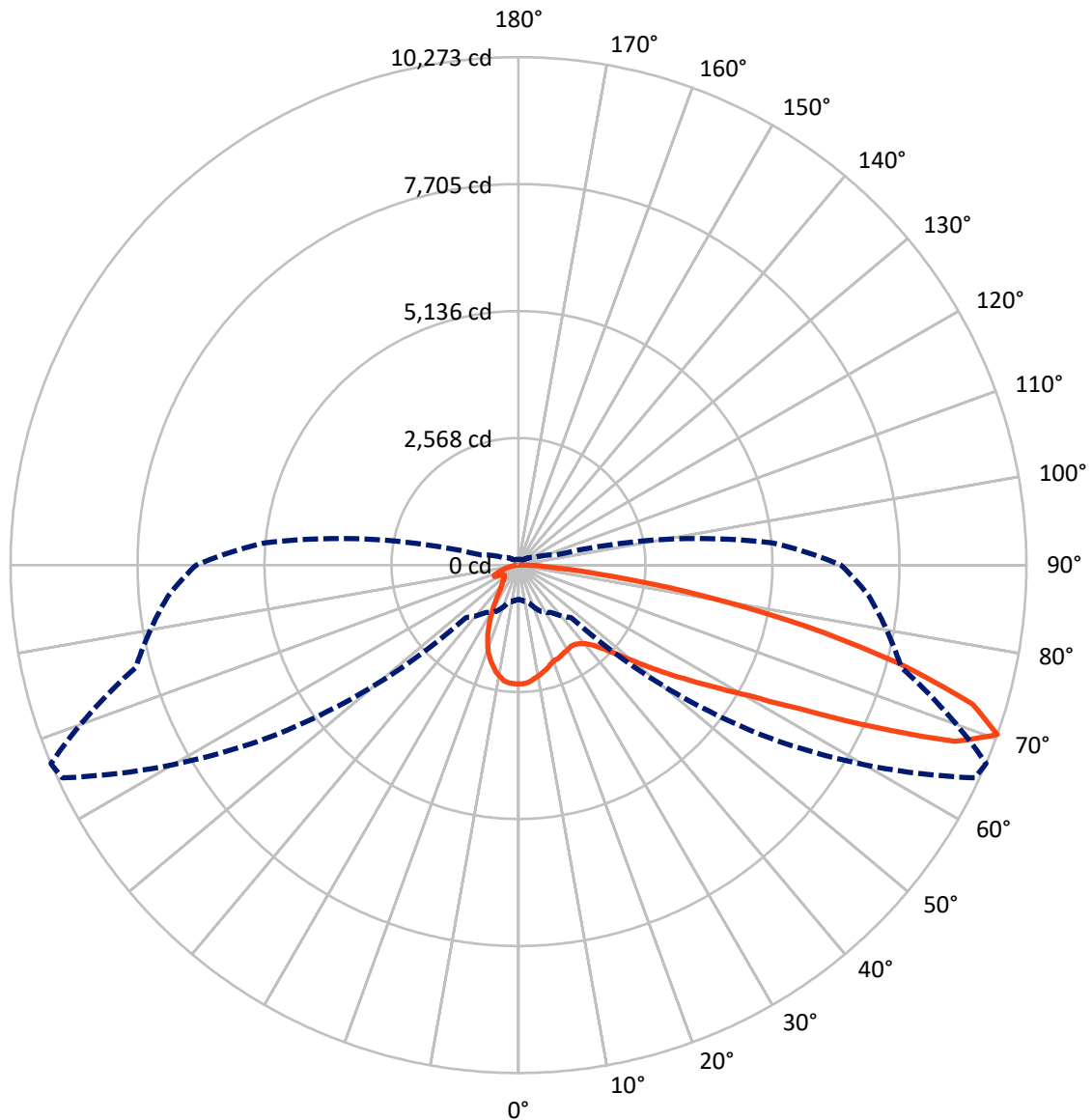
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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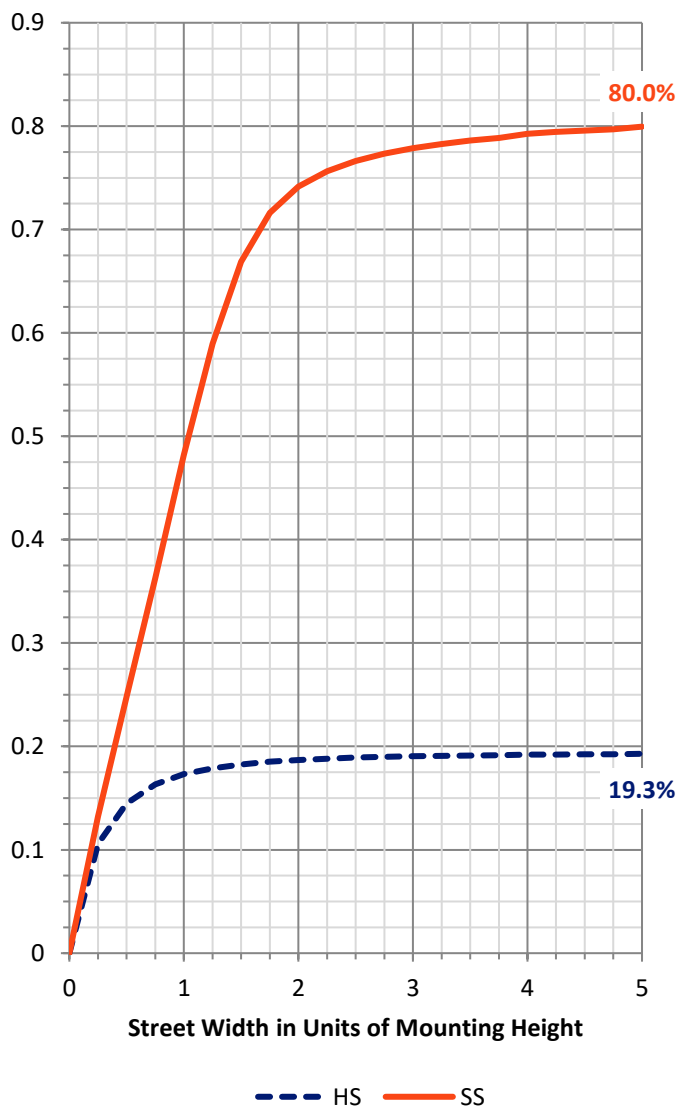
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2019.0	0.0	2019.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	8347.5	0.0	8347.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	10366.4	0.0	10366.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.4	2.0
10°-20°	501.5	4.8
20°-30°	677.2	6.5
30°-40°	906.2	8.7
40°-50°	1332.5	12.9
50°-60°	2077.0	20.0
60°-70°	2558.5	24.7
70°-80°	1807.8	17.4
80°-90°	296.3	2.9
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°	10366.4	100.0
0°-180°	10366.4	100.0

Coefficient of Utilization



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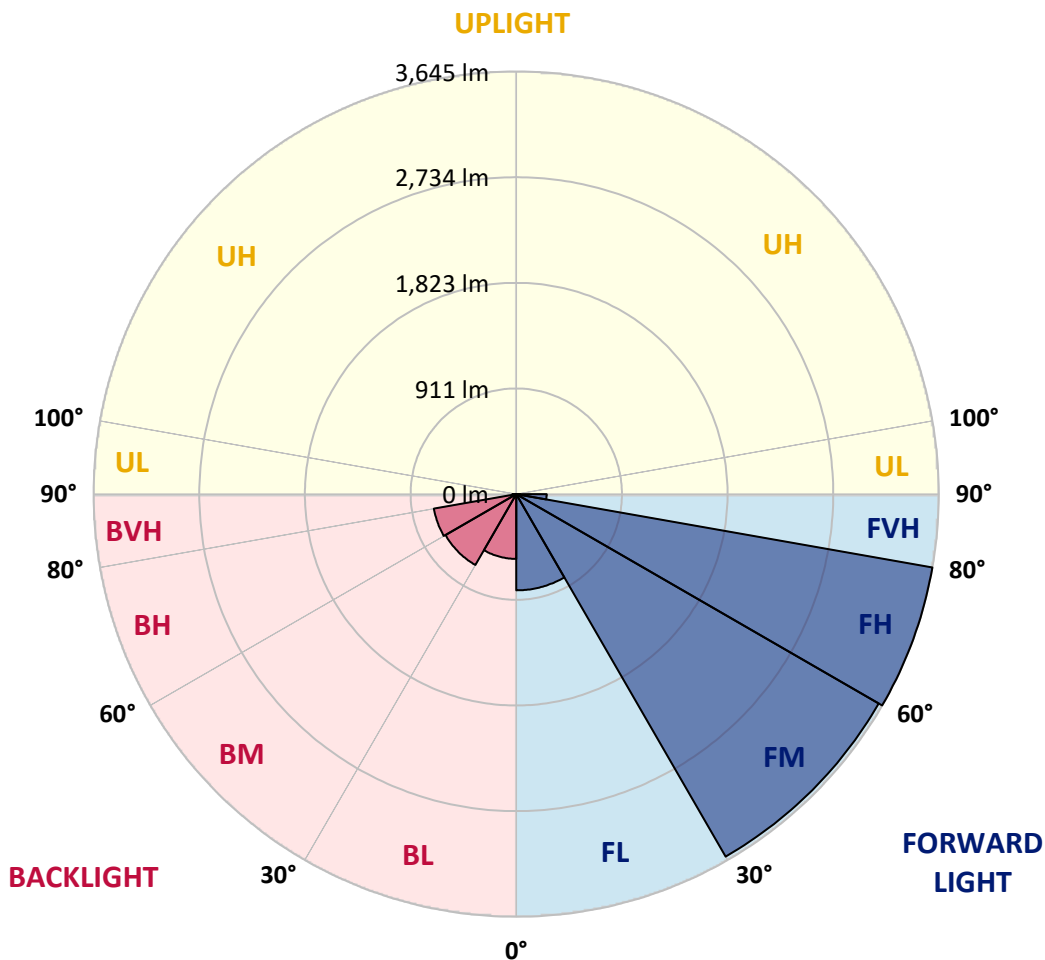
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	829.8	8.0			
FM (30°-60°)	3610.4	34.8			
FH (60°-80°)	3645.2	35.2			G2/5000
FVH (80°-90°)	262.1	2.5			G3/500
BL (0°-30°)	558.3	5.4	B2/1000		
BM (30°-60°)	705.3	6.8	B1/1000		
BH (60°-80°)	721.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	34.2	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8
2.5°	2234.5	2259.8	2269.0	2282.7	2318.3	2344.7	2360.8	2379.1	2400.9	2419.3	2430.8
5°	2078.4	2092.2	2114.0	2128.9	2173.7	2244.9	2293.1	2371.1	2368.8	2397.5	2441.1
7.5°	1927.0	1940.7	1951.1	1980.9	2045.2	2109.4	2197.8	2324.0	2314.9	2381.4	2449.1
10°	1832.8	1822.5	1826.0	1876.5	1927.0	1999.3	2110.6	2239.1	2272.4	2375.7	2472.1
12.5°	1744.5	1733.0	1760.5	1792.7	1854.6	1920.1	2053.2	2169.1	2219.6	2355.0	2482.4
15°	1689.4	1681.3	1715.8	1729.6	1803.0	1881.0	1975.2	2116.3	2171.4	2329.8	2466.4
17.5°	1658.4	1665.3	1677.9	1707.7	1754.8	1821.4	1924.7	2080.7	2104.8	2298.8	2462.9
20°	1664.1	1672.2	1673.3	1685.9	1718.1	1769.7	1875.3	2042.9	2058.9	2293.1	2472.1
22.5°	1710.0	1698.6	1703.2	1695.1	1704.3	1744.5	1837.4	1992.4	2054.3	2244.9	2452.6
25°	1778.9	1762.8	1760.5	1733.0	1715.8	1727.3	1830.5	1979.7	2019.9	2229.9	2451.4
27.5°	1900.6	1876.5	1876.5	1835.1	1765.1	1746.8	1811.0	1959.1	1994.7	2216.2	2425.0
30°	2017.6	2017.6	2018.8	1960.2	1882.2	1791.5	1819.1	1951.1	1974.0	2174.9	2389.5
32.5°	2159.9	2156.5	2150.7	2122.1	2001.6	1866.1	1858.1	1940.7	1952.2	2161.1	2379.1
35°	2298.8	2289.6	2334.4	2309.1	2186.3	2011.9	1898.3	1945.3	1970.6	2140.4	2347.0
37.5°	2403.2	2409.0	2501.9	2518.0	2412.4	2177.1	2011.9	1991.2	2015.3	2170.3	2347.0
40°	2538.7	2561.6	2648.8	2702.8	2638.5	2395.2	2192.1	2068.1	2085.3	2236.8	2397.5
42.5°	2716.6	2736.1	2847.4	2917.4	2899.0	2672.9	2370.0	2228.8	2215.0	2348.2	2473.2
45°	2951.8	2955.3	3067.7	3164.2	3202.0	2963.3	2652.3	2431.9	2420.5	2539.8	2612.1
47.5°	3231.9	3228.4	3298.4	3401.7	3503.9	3309.9	2977.1	2740.7	2699.3	2814.1	2842.8
50°	3502.7	3487.8	3503.9	3635.8	3832.1	3743.7	3371.9	3118.2	3076.9	3140.0	3189.4
52.5°	3651.9	3670.3	3626.7	3801.1	4181.0	4256.7	3895.2	3569.3	3533.7	3564.7	3650.8
55°	3547.5	3585.3	3556.7	3721.9	4333.6	4882.2	4572.4	4091.5	4045.6	4034.1	4175.3
57.5°	3103.3	3172.2	3177.9	3439.6	4280.8	5366.5	5524.9	4707.8	4638.9	4521.9	4667.6
60°	2382.6	2451.4	2504.2	2814.1	3828.7	5655.8	6629.0	5584.6	5357.4	5054.4	5141.6
62.5°	1669.9	1716.9	1769.7	1960.2	2951.8	5485.9	7583.9	6819.5	6400.6	5615.6	5724.6
65°	1216.5	1253.3	1307.2	1419.7	1813.3	4539.1	8026.9	8286.2	7889.1	6329.4	6315.7
67.5°	915.8	938.8	1010.0	1190.1	1256.7	2803.8	7567.8	9835.6	9514.3	7122.5	6790.8
70°	693.2	712.7	779.3	1026.0	1174.1	1503.5	5970.2	10181.1	10272.9	8011.9	7109.9
72.5°	477.4	499.2	573.8	855.0	1117.8	1192.4	3747.2	9249.1	9596.9	8378.1	6767.9
75°	292.7	307.6	351.2	648.4	1109.8	1166.0	2062.4	7579.3	7947.7	7741.1	5920.9
77.5°	206.6	205.4	213.5	379.9	961.8	1172.9	1271.6	5553.6	5911.7	5705.1	4018.0
80°	150.3	151.5	159.5	227.2	653.0	1192.4	1001.9	3719.6	3826.4	2974.8	1584.9
82.5°	90.7	95.3	114.8	153.8	392.5	1076.5	926.2	2067.0	1933.8	954.9	436.1
85°	48.2	48.2	67.7	97.6	208.9	803.4	891.7	983.6	824.0	296.1	161.8
87.5°	11.5	11.5	19.5	39.0	83.8	384.5	608.3	391.4	313.3	99.8	66.6
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°	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8
2.5°	2426.2	2412.4	2429.6	2395.2	2367.7	2368.8	2326.3	2324.0	2318.3	2288.5	2298.8
5°	2453.7	2442.3	2422.7	2384.9	2324.0	2263.2	2226.5	2179.4	2159.9	2149.6	2154.2
7.5°	2480.1	2459.5	2403.2	2350.4	2256.3	2141.6	2075.0	2011.9	1931.5	1922.4	1906.3
10°	2487.0	2443.4	2371.1	2258.6	2133.5	2006.1	1854.6	1737.6	1675.6	1627.4	1609.0
12.5°	2476.7	2458.3	2319.5	2174.9	1985.5	1785.8	1609.0	1443.8	1329.0	1269.3	1253.3
15°	2475.5	2443.4	2262.1	2047.5	1805.3	1544.8	1293.4	1094.9	974.4	925.0	925.0
17.5°	2476.7	2399.8	2194.4	1918.9	1593.0	1240.6	964.1	801.1	734.5	727.6	733.4
20°	2453.7	2367.7	2123.2	1767.4	1326.7	931.9	700.1	633.5	633.5	642.7	646.1
22.5°	2433.1	2319.5	2010.7	1580.4	1055.9	674.8	569.2	549.7	571.5	587.6	594.5
25°	2404.4	2279.3	1896.0	1386.4	803.4	544.0	494.6	499.2	519.9	548.6	546.3
27.5°	2363.1	2209.3	1759.4	1161.5	597.9	469.4	456.8	459.1	480.9	493.5	491.2
30°	2316.0	2138.1	1633.1	937.7	474.0	430.4	429.2	435.0	438.4	445.3	444.2
32.5°	2256.3	2044.0	1498.9	728.8	426.9	408.6	404.0	400.5	404.0	402.8	399.4
35°	2213.9	1993.5	1362.3	555.5	400.5	389.1	385.6	379.9	375.3	368.4	367.3
37.5°	2202.4	1943.0	1218.8	453.3	379.9	374.1	362.7	352.3	346.6	343.2	340.9
40°	2195.5	1909.7	1078.8	398.2	362.7	356.9	343.2	329.4	323.6	320.2	321.4
42.5°	2219.6	1891.4	936.5	370.7	347.7	337.4	322.5	306.4	305.3	303.0	306.4
45°	2304.5	1914.3	804.5	351.2	332.8	315.6	296.1	288.1	286.9	284.6	286.9
47.5°	2497.3	1971.7	692.1	338.6	316.8	301.8	281.2	269.7	268.6	267.4	267.4
50°	2763.6	2148.5	597.9	323.6	306.4	285.8	266.3	253.6	251.3	246.8	246.8
52.5°	3181.4	2445.7	541.7	315.6	288.1	270.9	250.2	236.4	230.7	226.1	226.1
55°	3651.9	2814.1	531.4	301.8	268.6	252.5	234.1	220.4	214.6	208.9	206.6
57.5°	4187.9	3301.9	604.8	292.7	254.8	234.1	213.5	200.8	196.3	190.5	188.2
60°	4687.1	3788.5	833.2	278.9	242.2	216.9	196.3	183.6	177.9	172.2	172.2
62.5°	5264.4	4391.0	1220.0	278.9	230.7	198.5	177.9	168.7	165.3	159.5	158.4
65°	5947.3	5014.2	1502.3	296.1	227.2	182.5	160.7	151.5	148.1	144.6	143.5
67.5°	6467.2	5372.3	1292.3	342.0	242.2	168.7	143.5	137.7	135.4	132.0	129.7
70°	6522.3	5154.2	779.3	369.6	257.1	154.9	128.5	122.8	122.8	119.4	117.1
72.5°	6027.6	4573.5	524.5	329.4	233.0	138.9	113.6	109.0	106.7	104.4	103.3
75°	5044.0	3879.2	414.3	262.8	179.0	114.8	98.7	94.1	90.7	89.5	87.2
77.5°	3387.9	2521.5	306.4	205.4	132.0	93.0	82.6	78.0	74.6	73.5	70.0
80°	1301.5	960.6	197.4	149.2	93.0	73.5	65.4	60.8	58.5	55.1	52.8
82.5°	383.3	311.0	110.2	91.8	59.7	50.5	47.1	43.6	40.2	36.7	35.6
85°	158.4	142.3	67.7	48.2	36.7	29.8	27.5	24.1	20.7	18.4	16.1
87.5°	73.5	60.8	31.0	18.4	12.6	6.9	3.4	1.1	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)