

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: P480262

Luminaire Tested: **IFLD-S-SA3A-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480262
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

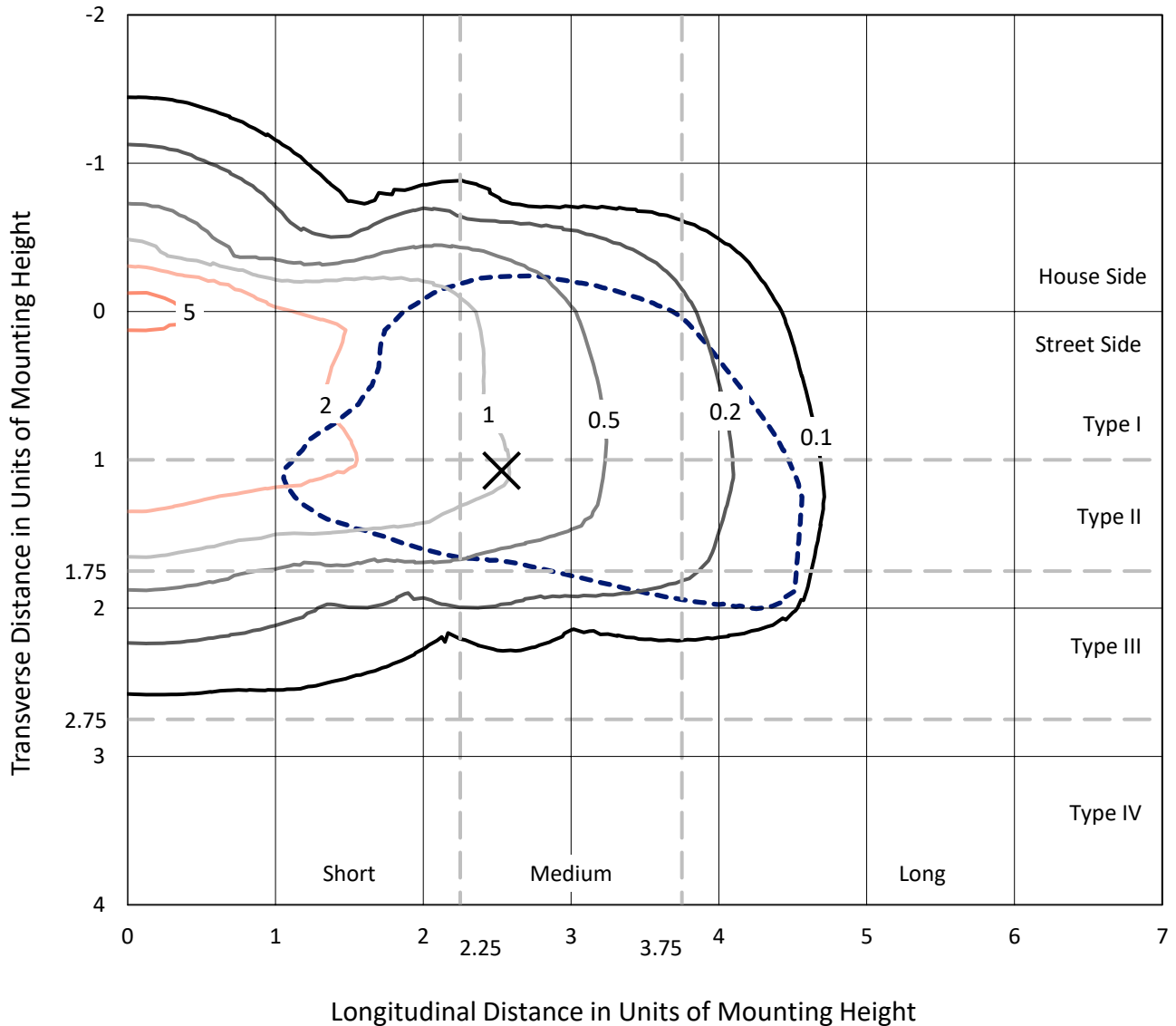
Lumens per Lamp: N/A
Luminaire Lumens: 10900.4 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 94.8
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

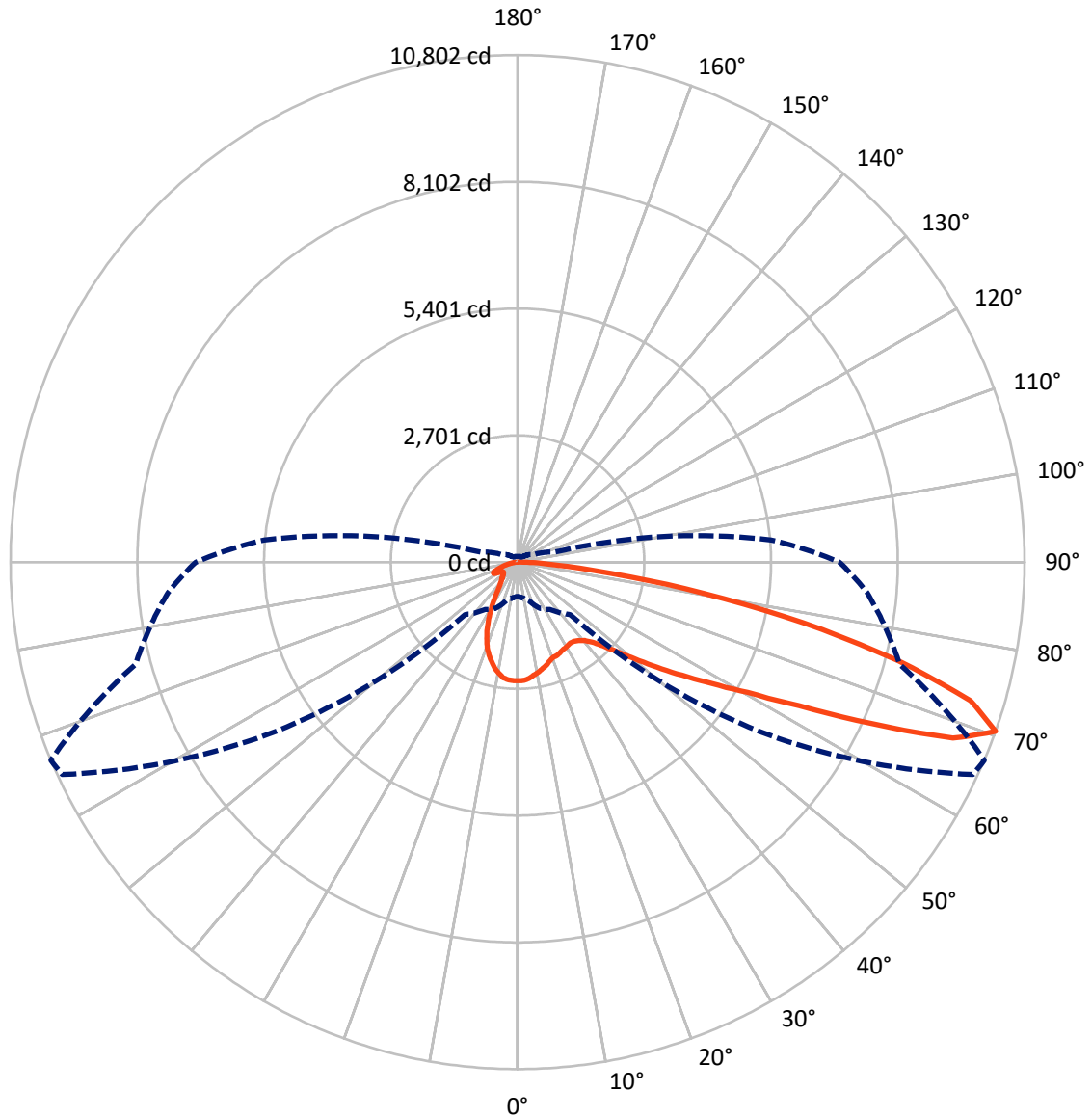
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 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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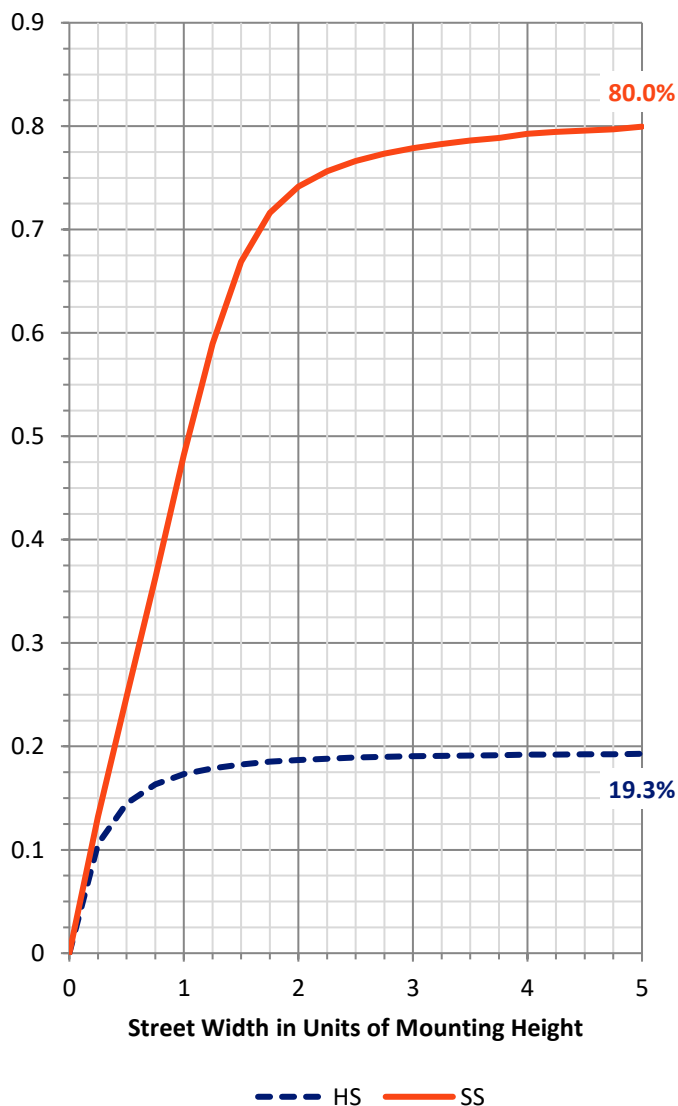
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2123.0	0.0	2123.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	8777.4	0.0	8777.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	10900.4	0.0	10900.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	2.0
10°-20°	527.3	4.8
20°-30°	712.1	6.5
30°-40°	952.8	8.7
40°-50°	1401.1	12.9
50°-60°	2184.0	20.0
60°-70°	2690.3	24.7
70°-80°	1901.0	17.4
80°-90°	311.6	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°	10900.4	100.0
0°-180°	10900.4	100.0

Coefficient of Utilization

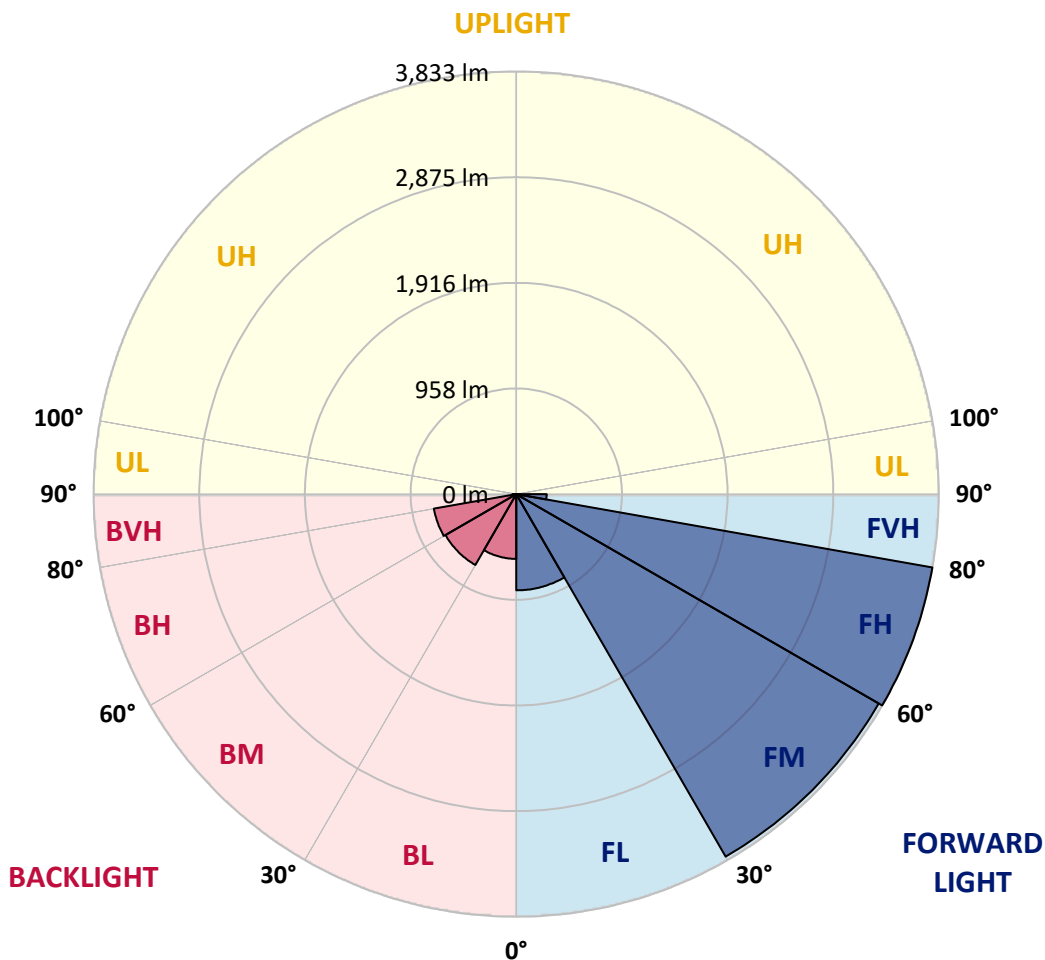


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.5	8.0			
FM (30°-60°)	3796.4	34.8			
FH (60°-80°)	3832.9	35.2			G2/5000
FVH (80°-90°)	275.6	2.5			G3/500
BL (0°-30°)	587.1	5.4	B2/1000		
BM (30°-60°)	741.6	6.8	B1/1000		
BH (60°-80°)	758.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	35.9	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°	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4
2.5°	2349.6	2376.2	2385.8	2400.3	2437.7	2465.5	2482.4	2501.7	2524.6	2543.9	2556.0
5°	2185.5	2200.0	2222.9	2238.6	2285.7	2360.5	2411.2	2493.2	2490.8	2521.0	2566.8
7.5°	2026.2	2040.7	2051.5	2082.9	2150.5	2218.1	2311.0	2443.8	2434.1	2504.1	2575.3
10°	1927.2	1916.4	1920.0	1973.1	2026.2	2102.2	2219.3	2354.4	2389.4	2498.1	2599.4
12.5°	1834.3	1822.3	1851.2	1885.0	1950.2	2019.0	2158.9	2280.8	2333.9	2476.3	2610.3
15°	1776.4	1767.9	1804.2	1818.6	1895.9	1977.9	2076.9	2225.3	2283.2	2449.8	2593.4
17.5°	1743.8	1751.1	1764.3	1795.7	1845.2	1915.2	2023.8	2187.9	2213.3	2417.2	2589.8
20°	1749.8	1758.3	1759.5	1772.8	1806.6	1860.9	1971.9	2148.1	2165.0	2411.2	2599.4
22.5°	1798.1	1786.0	1790.9	1782.4	1792.1	1834.3	1932.1	2095.0	2160.2	2360.5	2578.9
25°	1870.5	1853.6	1851.2	1822.3	1804.2	1816.2	1924.8	2081.7	2124.0	2344.8	2577.7
27.5°	1998.4	1973.1	1973.1	1929.7	1856.0	1836.7	1904.3	2060.0	2097.4	2330.3	2549.9
30°	2121.5	2121.5	2122.7	2061.2	1979.1	1883.8	1912.8	2051.5	2075.7	2286.9	2512.5
32.5°	2271.2	2267.6	2261.5	2231.4	2104.6	1962.2	1953.8	2040.7	2052.8	2272.4	2501.7
35°	2417.2	2407.5	2454.6	2428.1	2298.9	2115.5	1996.0	2045.5	2072.1	2250.7	2467.9
37.5°	2527.0	2533.1	2630.8	2647.7	2536.7	2289.3	2115.5	2093.8	2119.1	2282.0	2467.9
40°	2669.4	2693.6	2785.3	2842.0	2774.4	2518.6	2305.0	2174.6	2192.7	2352.0	2521.0
42.5°	2856.5	2877.0	2994.0	3067.7	3048.4	2810.6	2492.0	2343.6	2329.1	2469.1	2600.6
45°	3103.9	3107.5	3225.8	3327.1	3366.9	3115.9	2788.9	2557.2	2545.1	2670.6	2746.7
47.5°	3398.3	3394.7	3468.3	3576.9	3684.3	3480.4	3130.4	2881.8	2838.4	2959.0	2989.2
50°	3683.1	3667.4	3684.3	3823.1	4029.5	3936.5	3545.5	3278.8	3235.4	3301.8	3353.7
52.5°	3840.0	3859.3	3813.5	3996.9	4396.3	4476.0	4095.8	3753.1	3715.7	3748.3	3838.8
55°	3730.2	3770.0	3739.8	3913.6	4556.8	5133.7	4807.9	4302.2	4253.9	4241.9	4390.3
57.5°	3263.2	3335.6	3341.6	3616.8	4501.3	5643.0	5809.5	4950.3	4877.8	4754.8	4908.0
60°	2505.3	2577.7	2633.2	2959.0	4025.9	5947.1	6970.4	5872.2	5633.3	5314.7	5406.4
62.5°	1755.9	1805.4	1860.9	2061.2	3103.9	5768.5	7974.5	7170.7	6730.3	5904.8	6019.5
65°	1279.2	1317.8	1374.5	1492.8	1906.7	4772.9	8440.3	8713.0	8295.5	6655.4	6641.0
67.5°	963.0	987.2	1062.0	1251.4	1321.4	2948.2	7957.6	10342.2	10004.3	7489.3	7140.6
70°	728.9	749.4	819.4	1078.9	1234.5	1580.9	6277.7	10705.4	10802.0	8424.6	7476.1
72.5°	502.0	525.0	603.4	899.1	1175.4	1253.9	3940.2	9725.5	10091.2	8809.6	7116.4
75°	307.7	323.4	369.3	681.8	1167.0	1226.1	2168.6	7969.6	8357.0	8139.8	6225.8
77.5°	217.2	216.0	224.5	399.4	1011.3	1233.3	1337.1	5839.7	6216.2	5999.0	4225.0
80°	158.1	159.3	167.7	238.9	686.7	1253.9	1053.5	3911.2	4023.4	3128.0	1666.6
82.5°	95.3	100.2	120.7	161.7	412.7	1132.0	973.9	2173.4	2033.4	1004.0	458.6
85°	50.7	50.7	71.2	102.6	219.6	844.8	937.7	1034.2	866.5	311.4	170.2
87.5°	12.1	12.1	20.5	41.0	88.1	404.3	639.6	411.5	329.5	105.0	70.0
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°	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4
2.5°	2551.2	2536.7	2554.8	2518.6	2489.6	2490.8	2446.2	2443.8	2437.7	2406.3	2417.2
5°	2580.1	2568.0	2547.5	2507.7	2443.8	2379.8	2341.2	2291.7	2271.2	2260.3	2265.1
7.5°	2607.9	2586.2	2527.0	2471.5	2372.5	2251.9	2181.9	2115.5	2031.0	2021.4	2004.5
10°	2615.1	2569.3	2493.2	2375.0	2243.4	2109.5	1950.2	1827.1	1761.9	1711.2	1691.9
12.5°	2604.3	2584.9	2438.9	2286.9	2087.7	1877.8	1691.9	1518.1	1397.5	1334.7	1317.8
15°	2603.0	2569.3	2378.6	2152.9	1898.3	1624.3	1360.1	1151.3	1024.6	972.7	972.7
17.5°	2604.3	2523.4	2307.4	2017.8	1675.0	1304.5	1013.7	842.3	772.3	765.1	771.1
20°	2580.1	2489.6	2232.6	1858.5	1395.0	979.9	736.1	666.1	666.1	675.8	679.4
22.5°	2558.4	2438.9	2114.3	1661.8	1110.2	709.6	598.6	578.1	601.0	617.9	625.1
25°	2528.2	2396.7	1993.6	1457.8	844.8	572.0	520.1	525.0	546.7	576.8	574.4
27.5°	2484.8	2323.1	1850.0	1221.3	628.7	493.6	480.3	482.7	505.6	518.9	516.5
30°	2435.3	2248.3	1717.3	985.9	498.4	452.5	451.3	457.4	461.0	468.2	467.0
32.5°	2372.5	2149.3	1576.1	766.3	448.9	429.6	424.8	421.2	424.8	423.6	420.0
35°	2327.9	2096.2	1432.5	584.1	421.2	409.1	405.5	399.4	394.6	387.4	386.2
37.5°	2315.8	2043.1	1281.6	476.7	399.4	393.4	381.3	370.5	364.5	360.8	358.4
40°	2308.6	2008.1	1134.4	418.8	381.3	375.3	360.8	346.3	340.3	336.7	337.9
42.5°	2333.9	1988.8	984.7	389.8	365.7	354.8	339.1	322.2	321.0	318.6	322.2
45°	2423.2	2012.9	846.0	369.3	350.0	331.9	311.4	302.9	301.7	299.3	301.7
47.5°	2626.0	2073.3	727.7	356.0	333.1	317.4	295.7	283.6	282.4	281.2	281.2
50°	2906.0	2259.1	628.7	340.3	322.2	300.5	280.0	266.7	264.3	259.5	259.5
52.5°	3345.2	2571.7	569.6	331.9	302.9	284.8	263.1	248.6	242.6	237.7	237.7
55°	3840.0	2959.0	558.7	317.4	282.4	265.5	246.2	231.7	225.7	219.6	217.2
57.5°	4403.6	3471.9	636.0	307.7	267.9	246.2	224.5	211.2	206.4	200.3	197.9
60°	4928.5	3983.6	876.1	293.3	254.6	228.1	206.4	193.1	187.1	181.0	181.0
62.5°	5535.5	4617.2	1282.8	293.3	242.6	208.8	187.1	177.4	173.8	167.7	166.5
65°	6253.6	5272.5	1579.7	311.4	238.9	191.9	169.0	159.3	155.7	152.1	150.8
67.5°	6800.3	5649.0	1358.8	359.6	254.6	177.4	150.8	144.8	142.4	138.8	136.4
70°	6858.2	5419.7	819.4	388.6	270.3	162.9	135.2	129.1	129.1	125.5	123.1
72.5°	6338.1	4809.1	551.5	346.3	245.0	146.0	119.5	114.6	112.2	109.8	108.6
75°	5303.8	4079.0	435.7	276.4	188.3	120.7	103.8	99.0	95.3	94.1	91.7
77.5°	3562.4	2651.3	322.2	216.0	138.8	97.8	86.9	82.1	78.4	77.2	73.6
80°	1368.5	1010.1	207.6	156.9	97.8	77.2	68.8	64.0	61.5	57.9	55.5
82.5°	403.1	327.0	115.9	96.5	62.8	53.1	49.5	45.9	42.2	38.6	37.4
85°	166.5	149.6	71.2	50.7	38.6	31.4	29.0	25.3	21.7	19.3	16.9
87.5°	77.2	64.0	32.6	19.3	13.3	7.2	3.6	1.2	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)