

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: P480063

Luminaire Tested: **IFLD-S-SA2B-735-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480063
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

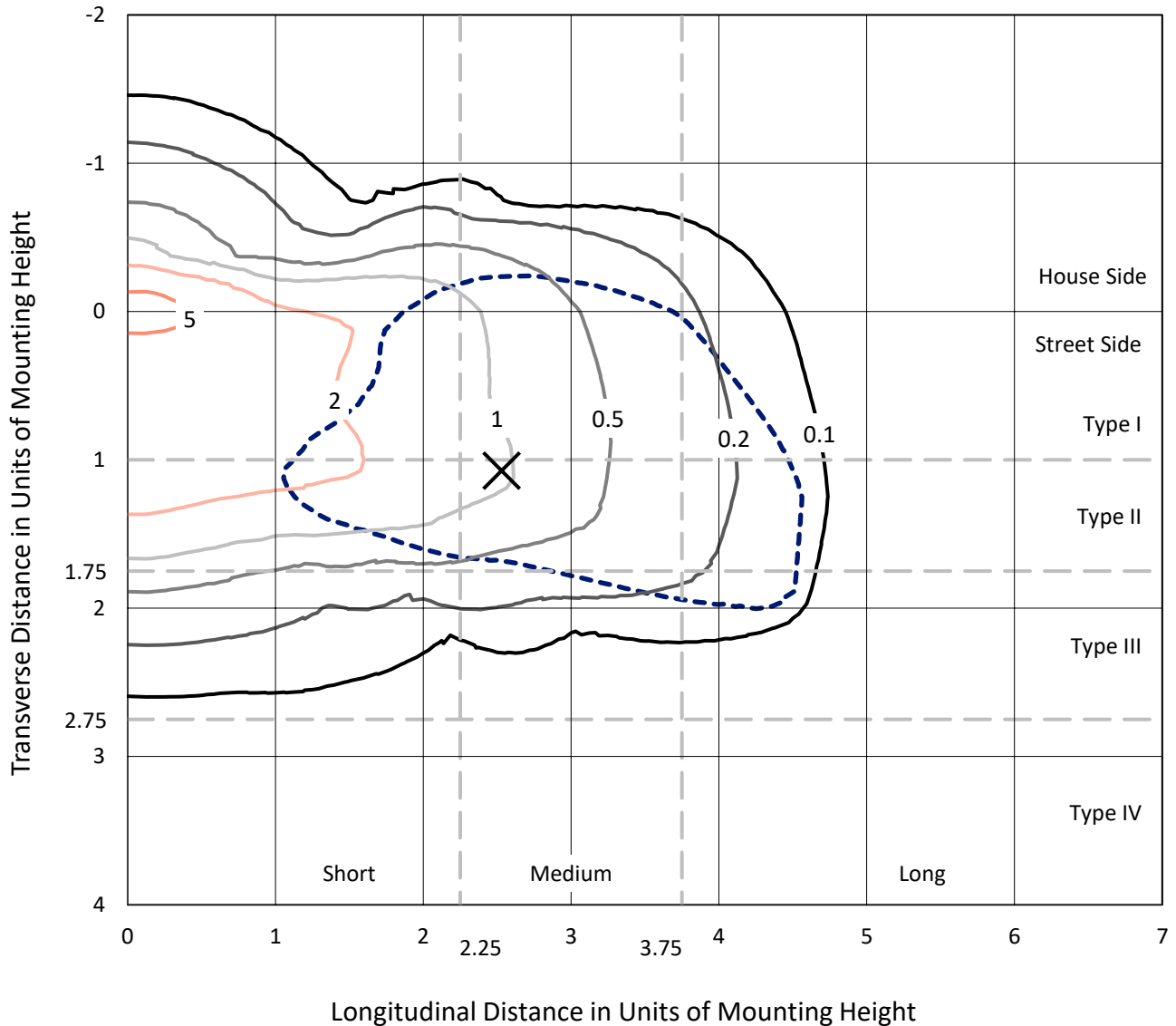
Lumens per Lamp: N/A
Luminaire Lumens: 11228.2 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

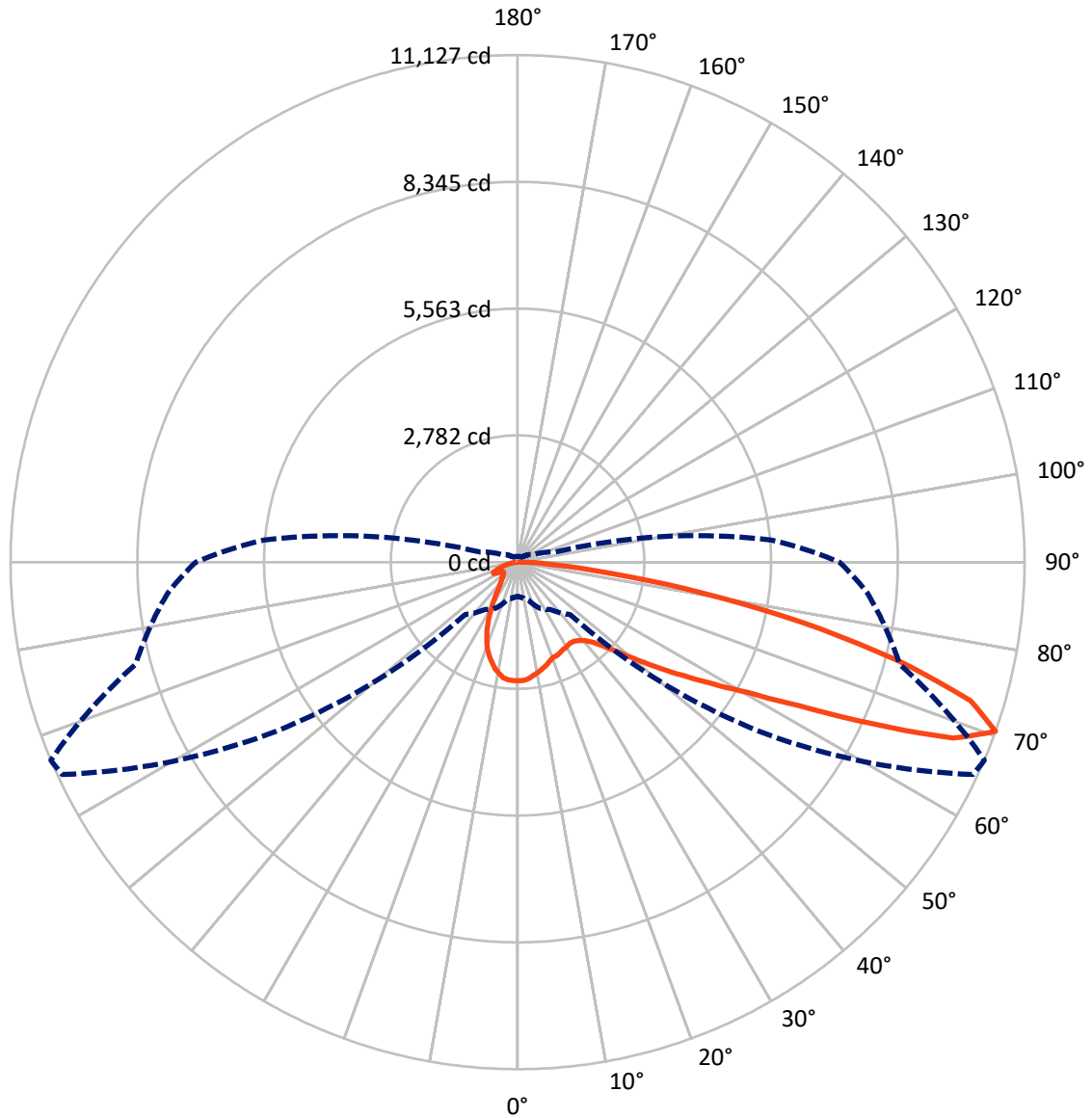
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 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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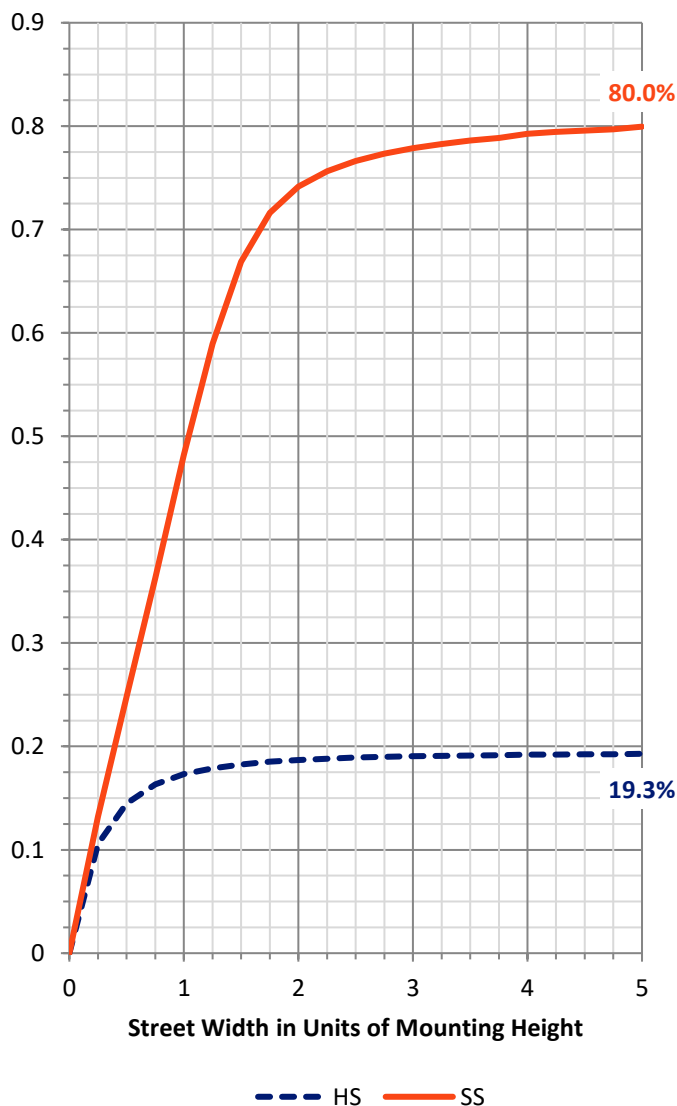
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2186.8	0.0	2186.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	9041.4	0.0	9041.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	11228.2	0.0	11228.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.8	2.0
10°-20°	543.2	4.8
20°-30°	733.5	6.5
30°-40°	981.5	8.7
40°-50°	1443.3	12.9
50°-60°	2249.7	20.0
60°-70°	2771.2	24.7
70°-80°	1958.1	17.4
80°-90°	320.9	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°	11228.2	100.0
0°-180°	11228.2	100.0

Coefficient of Utilization



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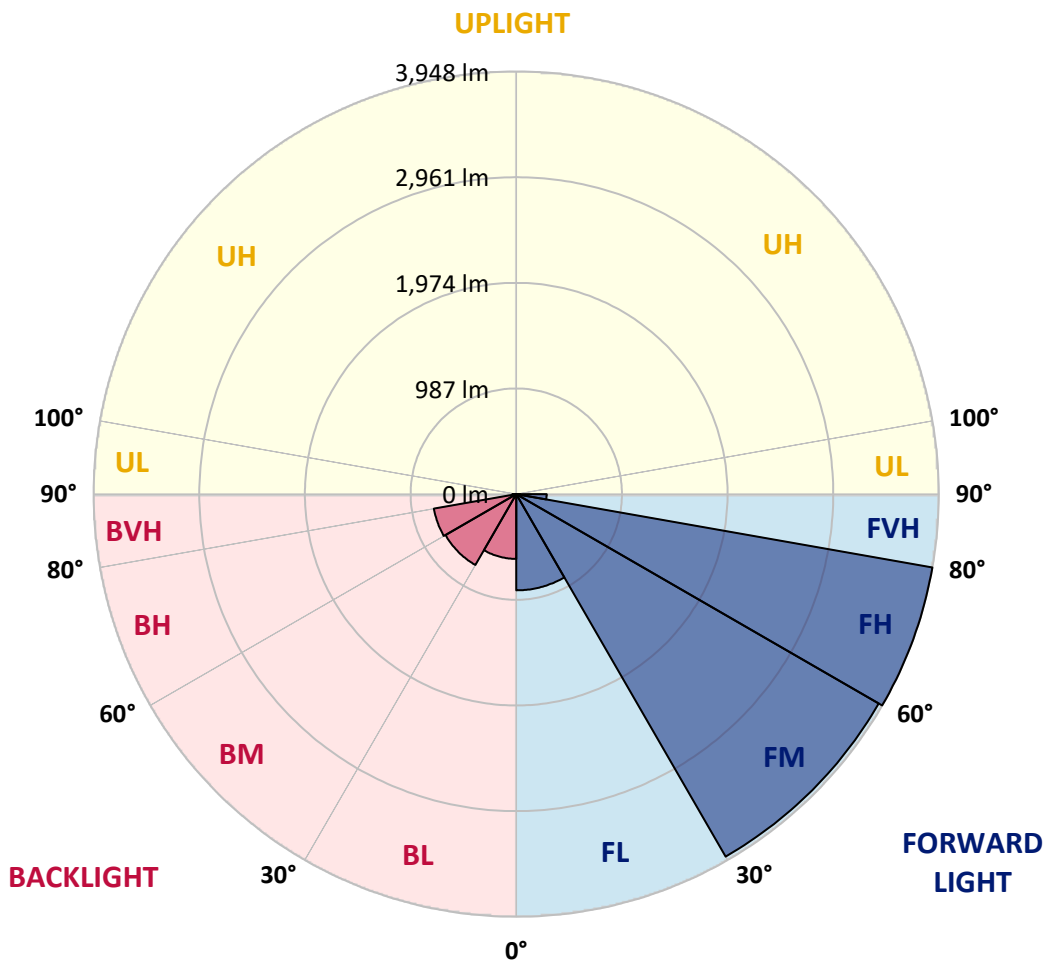
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	898.7	8.0			
FM (30°-60°)	3910.5	34.8			
FH (60°-80°)	3948.2	35.2			G2/5000
FVH (80°-90°)	283.9	2.5			G3/500
BL (0°-30°)	604.7	5.4	B2/1000		
BM (30°-60°)	763.9	6.8	B1/1000		
BH (60°-80°)	781.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	37.0	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°	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3
2.5°	2420.3	2447.6	2457.6	2472.5	2511.0	2539.6	2557.0	2576.9	2600.5	2620.4	2632.9
5°	2251.2	2266.1	2289.8	2305.9	2354.4	2431.5	2483.7	2568.2	2565.7	2596.8	2644.0
7.5°	2087.1	2102.1	2113.2	2145.6	2215.2	2284.8	2380.5	2517.3	2507.3	2579.4	2652.7
10°	1985.2	1974.0	1977.8	2032.4	2087.1	2165.5	2286.0	2425.3	2461.3	2573.2	2677.6
12.5°	1889.5	1877.1	1906.9	1941.7	2008.8	2079.7	2223.9	2349.4	2404.1	2550.8	2688.8
15°	1829.8	1821.1	1858.4	1873.3	1952.9	2037.4	2139.4	2292.3	2351.9	2523.5	2671.4
17.5°	1796.3	1803.7	1817.4	1849.7	1900.7	1972.8	2084.7	2253.7	2279.8	2489.9	2667.7
20°	1802.5	1811.2	1812.4	1826.1	1860.9	1916.8	2031.2	2212.7	2230.1	2483.7	2677.6
22.5°	1852.2	1839.8	1844.7	1836.0	1846.0	1889.5	1990.2	2158.0	2225.1	2431.5	2656.5
25°	1926.8	1909.4	1906.9	1877.1	1858.4	1870.8	1982.7	2144.3	2187.8	2415.3	2655.2
27.5°	2058.6	2032.4	2032.4	1987.7	1911.9	1892.0	1961.6	2122.0	2160.5	2400.4	2626.6
30°	2185.3	2185.3	2186.6	2123.2	2038.7	1940.5	1970.3	2113.2	2138.1	2355.7	2588.1
32.5°	2339.5	2335.8	2329.5	2298.5	2167.9	2021.3	2012.6	2102.1	2114.5	2340.7	2576.9
35°	2489.9	2480.0	2528.4	2501.1	2368.1	2179.1	2056.1	2107.0	2134.4	2318.4	2542.1
37.5°	2603.0	2609.2	2709.9	2727.3	2613.0	2358.1	2179.1	2156.8	2182.9	2350.7	2542.1
40°	2749.7	2774.6	2869.0	2927.5	2857.9	2594.3	2374.3	2240.0	2258.7	2422.8	2596.8
42.5°	2942.4	2963.5	3084.1	3159.9	3140.0	2895.2	2567.0	2414.1	2399.2	2543.4	2678.9
45°	3197.2	3201.0	3322.8	3427.2	3468.2	3209.7	2872.8	2634.1	2621.7	2751.0	2829.3
47.5°	3500.5	3496.8	3572.6	3684.5	3795.1	3585.1	3224.6	2968.5	2923.7	3048.1	3079.1
50°	3793.9	3777.7	3795.1	3938.1	4150.7	4055.0	3652.2	3377.5	3332.7	3401.1	3454.5
52.5°	3955.5	3975.4	3928.2	4117.1	4528.6	4610.6	4219.0	3866.0	3827.5	3861.0	3954.3
55°	3842.4	3883.4	3852.3	4031.3	4693.9	5288.1	4952.5	4431.6	4381.9	4369.5	4522.4
57.5°	3361.3	3435.9	3442.1	3725.5	4636.7	5812.7	5984.2	5099.1	5024.6	4897.8	5055.6
60°	2580.6	2655.2	2712.4	3048.1	4146.9	6125.9	7180.1	6048.9	5802.7	5474.6	5569.0
62.5°	1808.7	1859.7	1916.8	2123.2	3197.2	5942.0	8214.3	7386.4	6932.7	6082.4	6200.5
65°	1317.7	1357.5	1415.9	1537.7	1964.1	4916.4	8694.2	8975.1	8545.0	6855.6	6840.7
67.5°	992.0	1016.8	1093.9	1289.1	1361.2	3036.9	8196.9	10653.3	10305.2	7714.6	7355.3
70°	750.8	772.0	844.1	1111.3	1271.7	1628.4	6466.5	11027.4	11126.9	8678.0	7700.9
72.5°	517.1	540.7	621.5	926.1	1210.8	1291.6	4058.7	10018.0	10394.7	9074.5	7330.5
75°	317.0	333.1	380.4	702.3	1202.1	1263.0	2233.8	8209.3	8608.4	8384.6	6413.1
77.5°	223.8	222.5	231.2	411.5	1041.7	1270.4	1377.3	6015.3	6403.1	6179.4	4352.0
80°	162.8	164.1	172.8	246.1	707.3	1291.6	1085.2	4028.8	4144.5	3222.1	1716.7
82.5°	98.2	103.2	124.3	166.6	425.1	1166.0	1003.2	2238.8	2094.6	1034.2	472.4
85°	52.2	52.2	73.3	105.7	226.2	870.2	965.9	1065.3	892.5	320.7	175.3
87.5°	12.4	12.4	21.1	42.3	90.7	416.4	658.8	423.9	339.4	108.1	72.1
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°	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3
2.5°	2627.9	2613.0	2631.6	2594.3	2564.5	2565.7	2519.7	2517.3	2511.0	2478.7	2489.9
5°	2657.7	2645.3	2624.2	2583.1	2517.3	2451.4	2411.6	2360.6	2339.5	2328.3	2333.3
7.5°	2686.3	2663.9	2603.0	2545.8	2443.9	2319.6	2247.5	2179.1	2092.1	2082.2	2064.8
10°	2693.8	2646.5	2568.2	2446.4	2310.9	2172.9	2008.8	1882.0	1814.9	1762.7	1742.8
12.5°	2682.6	2662.7	2512.3	2355.7	2150.5	1934.2	1742.8	1563.8	1439.5	1374.9	1357.5
15°	2681.3	2646.5	2450.1	2217.7	1955.4	1673.2	1401.0	1185.9	1055.4	1001.9	1001.9
17.5°	2682.6	2599.3	2376.8	2078.4	1725.4	1343.8	1044.2	867.7	795.6	788.1	794.3
20°	2657.7	2564.5	2299.7	1914.4	1437.0	1009.4	758.3	686.2	686.2	696.1	699.9
22.5°	2635.3	2512.3	2177.9	1711.7	1143.6	730.9	616.6	595.4	619.1	636.5	643.9
25°	2604.3	2468.8	2053.6	1501.6	870.2	589.2	535.8	540.7	563.1	594.2	591.7
27.5°	2559.5	2392.9	1905.7	1258.0	647.6	508.4	494.7	497.2	520.9	534.5	532.0
30°	2508.6	2315.9	1768.9	1015.6	513.4	466.2	464.9	471.1	474.9	482.3	481.1
32.5°	2443.9	2213.9	1623.5	789.4	462.4	442.5	437.6	433.8	437.6	436.3	432.6
35°	2397.9	2159.2	1475.5	601.7	433.8	421.4	417.7	411.5	406.5	399.0	397.8
37.5°	2385.5	2104.5	1320.2	491.0	411.5	405.2	392.8	381.6	375.4	371.7	369.2
40°	2378.0	2068.5	1168.5	431.4	392.8	386.6	371.7	356.8	350.6	346.8	348.1
42.5°	2404.1	2048.6	1014.4	401.5	376.7	365.5	349.3	331.9	330.7	328.2	331.9
45°	2496.1	2073.5	871.4	380.4	360.5	341.8	320.7	312.0	310.8	308.3	310.8
47.5°	2705.0	2135.6	749.6	366.7	343.1	326.9	304.6	292.1	290.9	289.6	289.6
50°	2993.4	2327.1	647.6	350.6	331.9	309.5	288.4	274.7	272.2	267.3	267.3
52.5°	3445.8	2649.0	586.7	341.8	312.0	293.4	271.0	256.1	249.9	244.9	244.9
55°	3955.5	3048.1	575.5	326.9	290.9	273.5	253.6	238.7	232.5	226.2	223.8
57.5°	4536.0	3576.4	655.1	317.0	276.0	253.6	231.2	217.5	212.6	206.4	203.9
60°	5076.8	4103.4	902.5	302.1	262.3	234.9	212.6	198.9	192.7	186.5	186.5
62.5°	5702.0	4756.1	1321.4	302.1	249.9	215.1	192.7	182.7	179.0	172.8	171.5
65°	6441.7	5431.0	1627.2	320.7	246.1	197.7	174.0	164.1	160.4	156.6	155.4
67.5°	7004.8	5818.9	1399.7	370.4	262.3	182.7	155.4	149.2	146.7	143.0	140.5
70°	7064.5	5582.7	844.1	400.3	278.5	167.8	139.2	133.0	133.0	129.3	126.8
72.5°	6528.7	4953.7	568.1	356.8	252.3	150.4	123.1	118.1	115.6	113.1	111.9
75°	5463.4	4201.6	448.8	284.7	193.9	124.3	106.9	101.9	98.2	97.0	94.5
77.5°	3669.6	2731.1	331.9	222.5	143.0	100.7	89.5	84.5	80.8	79.6	75.8
80°	1409.7	1040.5	213.8	161.6	100.7	79.6	70.9	65.9	63.4	59.7	57.2
82.5°	415.2	336.9	119.3	99.4	64.6	54.7	51.0	47.2	43.5	39.8	38.5
85°	171.5	154.1	73.3	52.2	39.8	32.3	29.8	26.1	22.4	19.9	17.4
87.5°	79.6	65.9	33.6	19.9	13.7	7.5	3.7	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)