

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: P480102

Luminaire Tested: **IFLD-S-SA2B-740-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480102
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

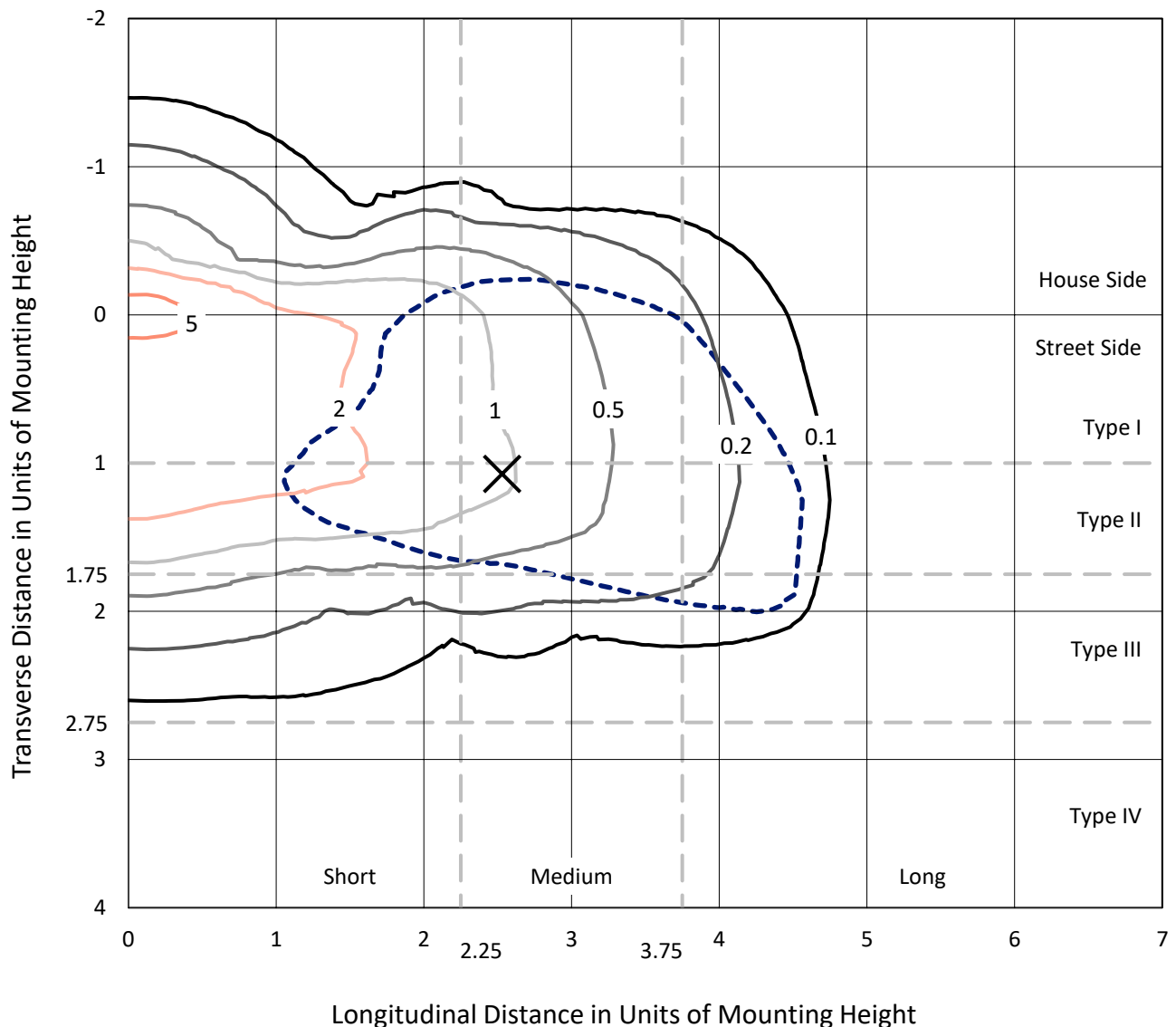
Lumens per Lamp: N/A
Luminaire Lumens: 11384.2 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

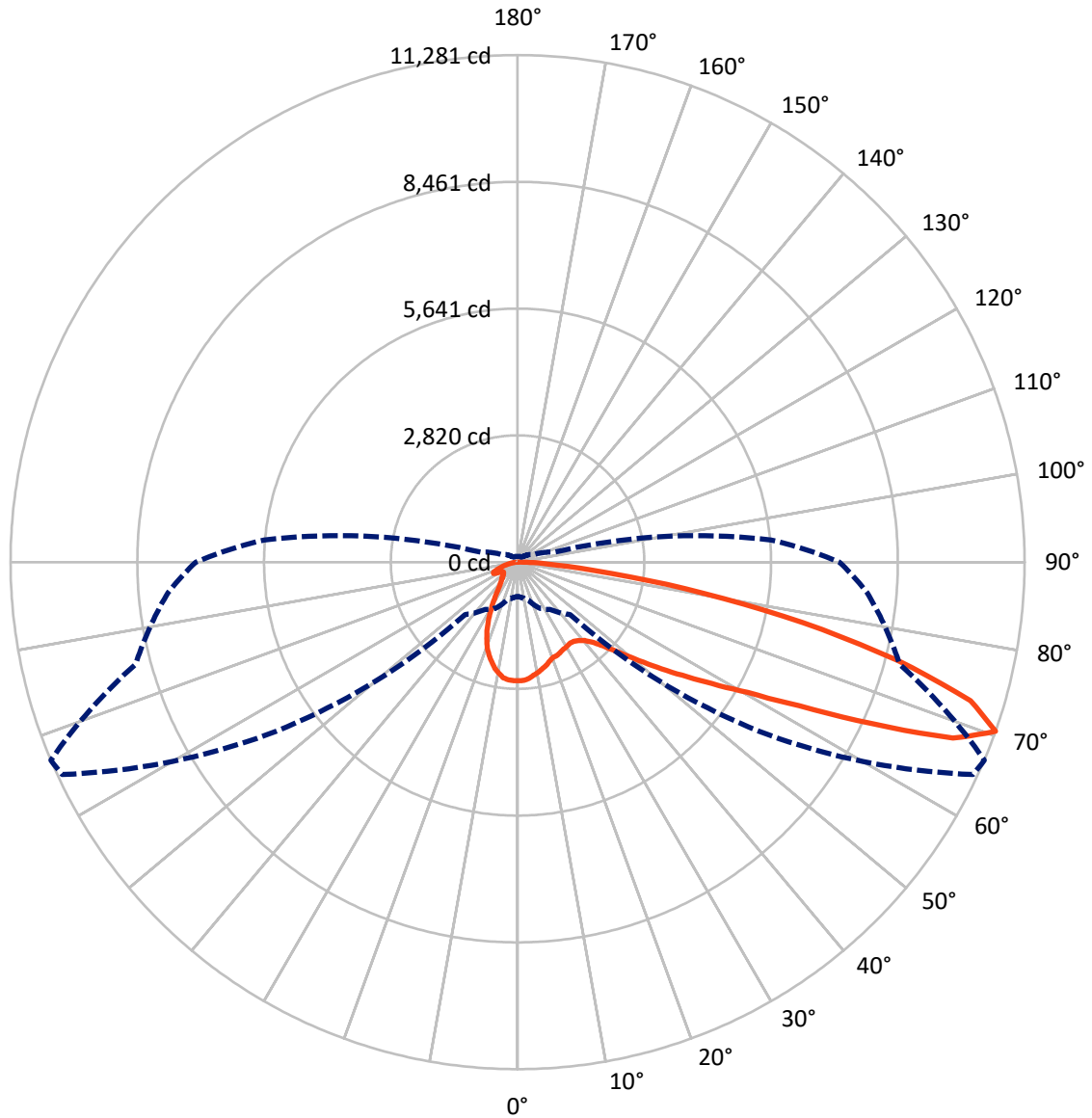
× Max cd
 - - - 1/2 Max cd



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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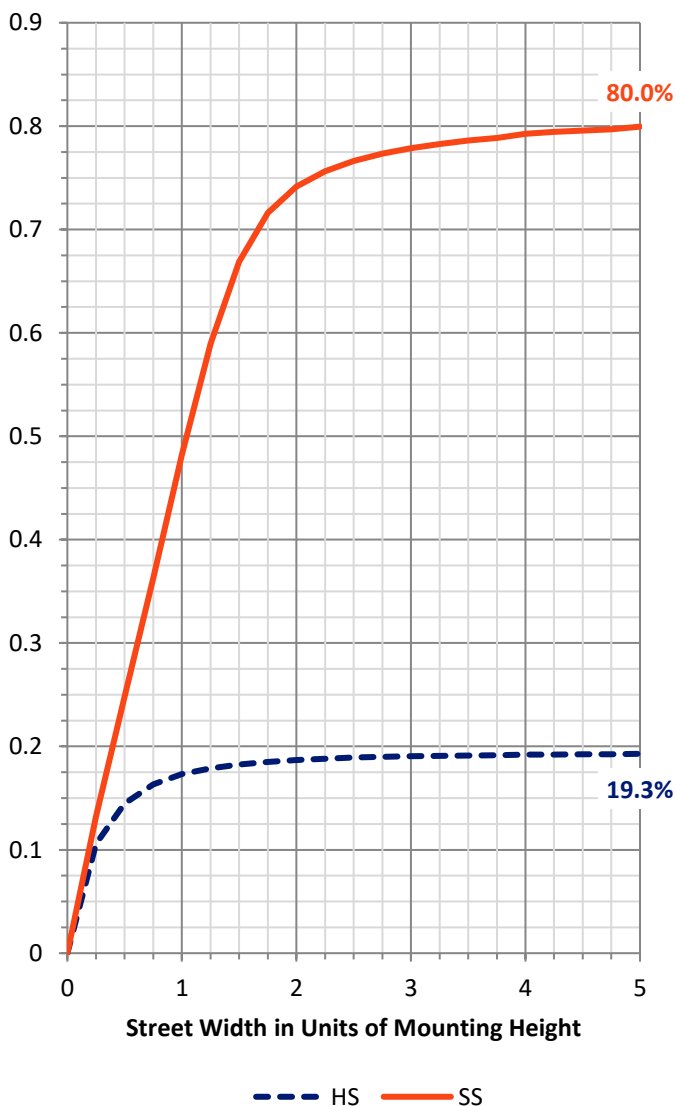
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2217.2	0.0	2217.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	9167.0	0.0	9167.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	11384.2	0.0	11384.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.9	2.0
10°-20°	550.7	4.8
20°-30°	743.7	6.5
30°-40°	995.1	8.7
40°-50°	1463.3	12.9
50°-60°	2280.9	20.0
60°-70°	2809.7	24.7
70°-80°	1985.3	17.4
80°-90°	325.4	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°	11384.2	100.0
0°-180°	11384.2	100.0

Coefficient of Utilization

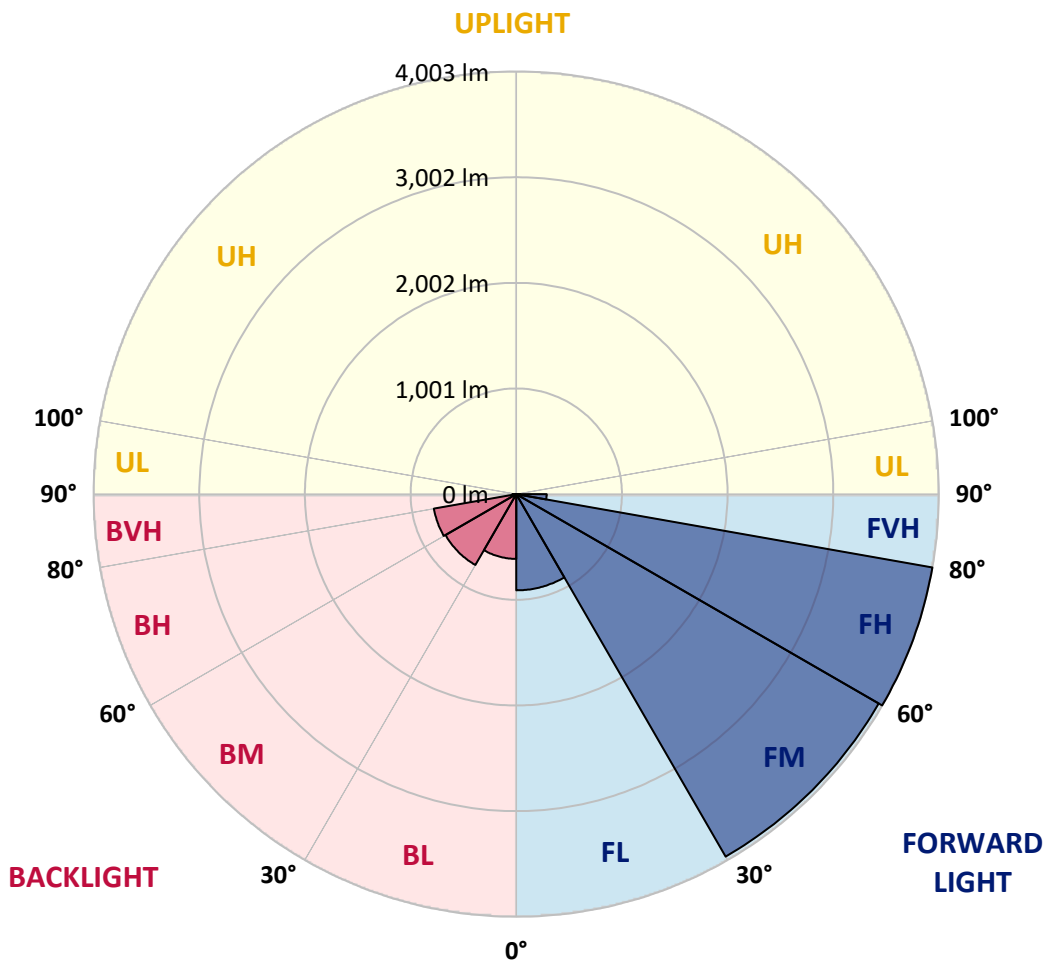


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.2	8.0			
FM (30°-60°)	3964.9	34.8			
FH (60°-80°)	4003.1	35.2			G2/5000
FVH (80°-90°)	287.9	2.5			G3/500
BL (0°-30°)	613.1	5.4	B2/1000		
BM (30°-60°)	774.5	6.8	B1/1000		
BH (60°-80°)	792.0	7.0	B2/1000		G2/1000
BVH (80°-90°)	37.5	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°	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4
2.5°	2453.9	2481.6	2491.7	2506.8	2545.9	2574.9	2592.5	2612.7	2636.7	2656.8	2669.4
5°	2282.5	2297.6	2321.6	2338.0	2387.1	2465.3	2518.2	2603.9	2601.4	2632.9	2680.8
7.5°	2116.1	2131.3	2142.6	2175.4	2246.0	2316.5	2413.6	2552.2	2542.1	2615.2	2689.6
10°	2012.8	2001.4	2005.2	2060.7	2116.1	2195.5	2317.8	2459.0	2495.5	2608.9	2714.8
12.5°	1915.7	1903.1	1933.4	1968.7	2036.7	2108.6	2254.8	2382.1	2437.5	2586.2	2726.1
15°	1855.2	1846.4	1884.2	1899.4	1980.0	2065.7	2169.1	2324.1	2384.6	2558.5	2708.5
17.5°	1821.2	1828.8	1842.6	1875.4	1927.1	2000.2	2113.6	2285.0	2311.5	2524.5	2704.7
20°	1827.5	1836.3	1837.6	1851.5	1886.8	1943.5	2059.4	2243.4	2261.1	2518.2	2714.8
22.5°	1877.9	1865.3	1870.4	1861.5	1871.6	1915.7	2017.8	2188.0	2256.0	2465.3	2693.4
25°	1953.5	1935.9	1933.4	1903.1	1884.2	1896.8	2010.3	2174.1	2218.2	2448.9	2692.1
27.5°	2087.1	2060.7	2060.7	2015.3	1938.4	1918.3	1988.8	2151.4	2190.5	2433.7	2663.1
30°	2215.7	2215.7	2217.0	2152.7	2067.0	1967.4	1997.7	2142.6	2167.8	2388.4	2624.1
32.5°	2372.0	2368.2	2361.9	2330.4	2198.1	2049.3	2040.5	2131.3	2143.9	2373.2	2612.7
35°	2524.5	2514.4	2563.6	2535.8	2401.0	2209.4	2084.6	2136.3	2164.0	2350.6	2577.4
37.5°	2639.2	2645.5	2747.6	2765.2	2649.3	2390.9	2209.4	2186.7	2213.2	2383.3	2577.4
40°	2787.9	2813.1	2908.9	2968.1	2897.6	2630.4	2407.3	2271.2	2290.1	2456.4	2632.9
42.5°	2983.3	3004.7	3126.9	3203.8	3183.7	2935.4	2602.6	2447.6	2432.5	2578.7	2716.1
45°	3241.6	3245.4	3368.9	3474.8	3516.4	3254.2	2912.7	2670.7	2658.1	2789.2	2868.6
47.5°	3549.2	3545.4	3622.3	3735.7	3847.9	3634.9	3269.4	3009.7	2964.4	3090.4	3121.9
50°	3846.6	3830.2	3847.9	3992.8	4208.3	4111.3	3702.9	3424.4	3379.0	3448.3	3502.5
52.5°	4010.4	4030.6	3982.7	4174.3	4591.5	4674.7	4277.6	3919.7	3880.6	3914.7	4009.2
55°	3895.8	3937.3	3905.8	4087.3	4759.1	5361.5	5021.3	4493.2	4442.7	4430.1	4585.2
57.5°	3408.0	3483.6	3489.9	3777.3	4701.1	5893.4	6067.3	5170.0	5094.4	4965.8	5125.9
60°	2616.5	2692.1	2750.1	3090.4	4204.5	6211.0	7279.8	6132.9	5883.3	5550.6	5646.4
62.5°	1833.8	1885.5	1943.5	2152.7	3241.6	6024.5	8328.4	7489.0	7029.0	6166.9	6286.6
65°	1336.0	1376.3	1435.5	1559.1	1991.4	4984.7	8814.9	9099.8	8663.7	6950.9	6935.7
67.5°	1005.8	1031.0	1109.1	1307.0	1380.1	3079.0	8310.8	10801.2	10448.3	7821.8	7457.5
70°	761.3	782.7	855.8	1126.8	1289.3	1651.1	6556.4	11180.6	11281.4	8798.5	7807.9
72.5°	524.3	548.3	630.2	939.0	1227.6	1309.5	4115.1	10157.2	10539.1	9200.6	7432.3
75°	321.4	337.8	385.7	712.1	1218.8	1280.5	2264.9	8323.4	8728.0	8501.1	6502.2
77.5°	226.9	225.6	234.4	417.2	1056.2	1288.1	1396.5	6098.9	6492.1	6265.2	4412.5
80°	165.1	166.4	175.2	249.6	717.1	1309.5	1100.3	4084.8	4202.0	3266.8	1740.5
82.5°	99.6	104.6	126.0	168.9	431.0	1182.2	1017.1	2269.9	2123.7	1048.6	478.9
85°	52.9	52.9	74.4	107.1	229.4	882.2	979.3	1080.1	904.9	325.2	177.7
87.5°	12.6	12.6	21.4	42.9	92.0	422.2	668.0	429.8	344.1	109.7	73.1
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°	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4
2.5°	2664.4	2649.3	2668.2	2630.4	2600.1	2601.4	2554.7	2552.2	2545.9	2513.1	2524.5
5°	2694.6	2682.0	2660.6	2619.0	2552.2	2485.4	2445.1	2393.4	2372.0	2360.6	2365.7
7.5°	2723.6	2700.9	2639.2	2581.2	2477.9	2351.8	2278.7	2209.4	2121.2	2111.1	2093.4
10°	2731.2	2683.3	2603.9	2480.4	2343.0	2203.1	2036.7	1908.2	1840.1	1787.2	1767.0
12.5°	2719.8	2699.7	2547.2	2388.4	2180.4	1961.1	1767.0	1585.5	1459.5	1394.0	1376.3
15°	2718.6	2683.3	2484.2	2248.5	1982.5	1696.4	1420.4	1202.4	1070.0	1015.8	1015.8
17.5°	2719.8	2635.4	2409.8	2107.3	1749.4	1362.4	1058.7	879.7	806.6	799.1	805.4
20°	2694.6	2600.1	2331.7	1940.9	1457.0	1023.4	768.8	695.7	695.7	705.8	709.6
22.5°	2672.0	2547.2	2208.1	1735.5	1159.5	741.1	625.1	603.7	627.7	645.3	652.9
25°	2640.4	2503.1	2082.1	1522.5	882.2	597.4	543.2	548.3	570.9	602.4	599.9
27.5°	2595.1	2426.2	1932.1	1275.5	656.6	515.5	501.6	504.1	528.1	542.0	539.4
30°	2543.4	2348.0	1793.5	1029.7	520.5	472.6	471.4	477.7	481.5	489.0	487.8
32.5°	2477.9	2244.7	1646.0	800.3	468.9	448.7	443.6	439.9	443.6	442.4	438.6
35°	2431.2	2189.2	1496.0	610.0	439.9	427.3	423.5	417.2	412.1	404.6	403.3
37.5°	2418.6	2133.8	1338.5	497.8	417.2	410.9	398.3	386.9	380.6	376.8	374.3
40°	2411.1	2097.2	1184.7	437.3	398.3	392.0	376.8	361.7	355.4	351.6	352.9
42.5°	2437.5	2077.1	1028.4	407.1	381.9	370.5	354.2	336.5	335.3	332.7	336.5
45°	2530.8	2102.3	883.5	385.7	365.5	346.6	325.2	316.3	315.1	312.6	315.1
47.5°	2742.5	2165.3	760.0	371.8	347.9	331.5	308.8	296.2	294.9	293.7	293.7
50°	3034.9	2359.4	656.6	355.4	336.5	313.8	292.4	278.5	276.0	271.0	271.0
52.5°	3493.7	2685.8	594.9	346.6	316.3	297.4	274.8	259.6	253.3	248.3	248.3
55°	4010.4	3090.4	583.5	331.5	294.9	277.3	257.1	242.0	235.7	229.4	226.9
57.5°	4599.0	3626.0	664.2	321.4	279.8	257.1	234.4	220.6	215.5	209.2	206.7
60°	5147.3	4160.4	915.0	306.3	265.9	238.2	215.5	201.7	195.4	189.1	189.1
62.5°	5781.2	4822.1	1339.8	306.3	253.3	218.0	195.4	185.3	181.5	175.2	173.9
65°	6531.2	5506.5	1649.8	325.2	249.6	200.4	176.4	166.4	162.6	158.8	157.5
67.5°	7102.1	5899.7	1419.2	375.6	265.9	185.3	157.5	151.2	148.7	144.9	142.4
70°	7162.6	5660.3	855.8	405.8	282.3	170.1	141.2	134.9	134.9	131.1	128.6
72.5°	6619.4	5022.5	576.0	361.7	255.9	152.5	124.8	119.7	117.2	114.7	113.4
75°	5539.3	4260.0	455.0	288.6	196.6	126.0	108.4	103.3	99.6	98.3	95.8
77.5°	3720.6	2769.0	336.5	225.6	144.9	102.1	90.7	85.7	81.9	80.7	76.9
80°	1429.2	1054.9	216.8	163.8	102.1	80.7	71.8	66.8	64.3	60.5	58.0
82.5°	421.0	341.6	121.0	100.8	65.5	55.5	51.7	47.9	44.1	40.3	39.1
85°	173.9	156.3	74.4	52.9	40.3	32.8	30.2	26.5	22.7	20.2	17.6
87.5°	80.7	66.8	34.0	20.2	13.9	7.6	3.8	1.3	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)