

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: P483851

Luminaire Tested: **IFLD-S-SA3B-722-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483851
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-722-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

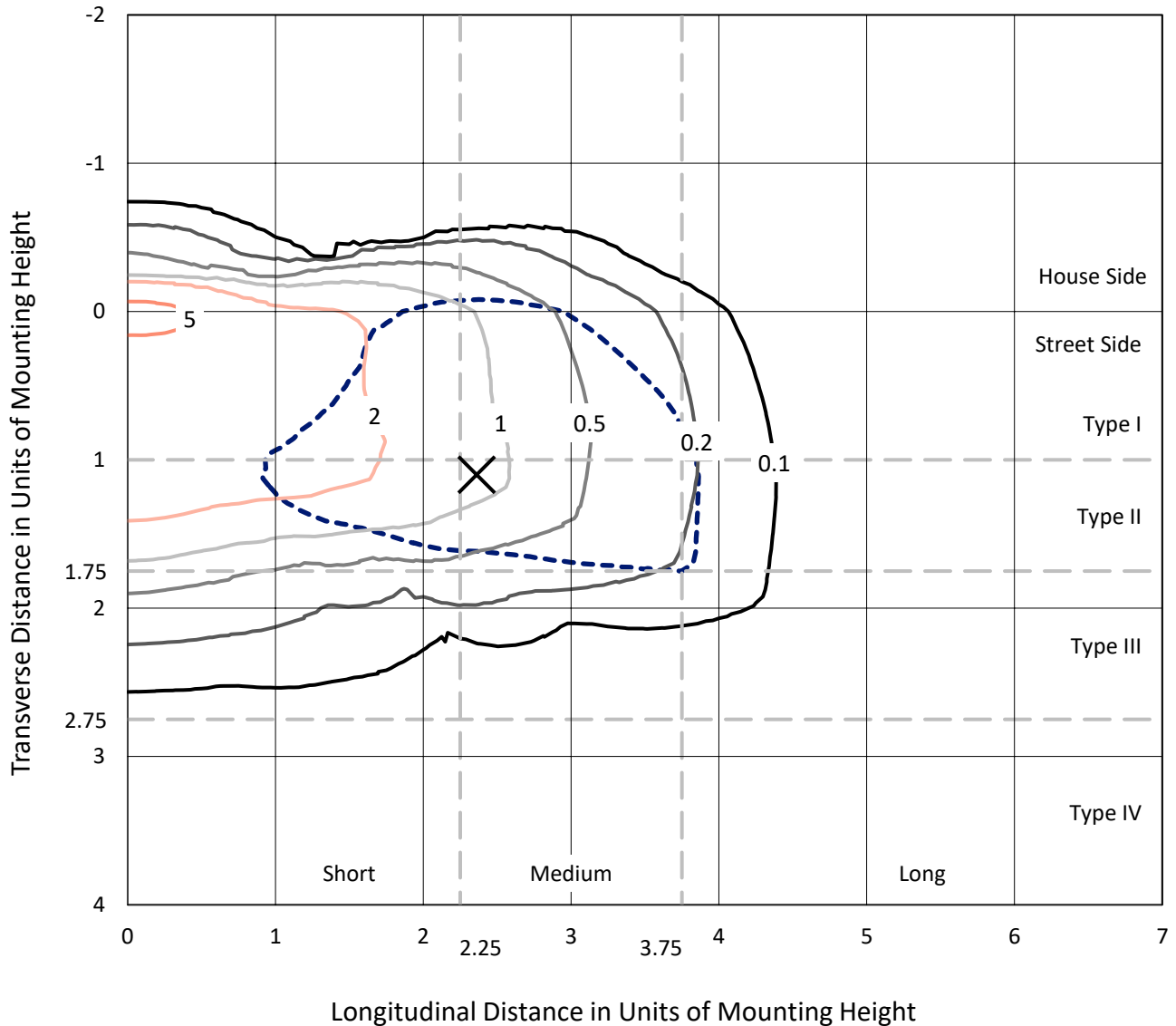
Lumens per Lamp: N/A
Luminaire Lumens: 10316 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

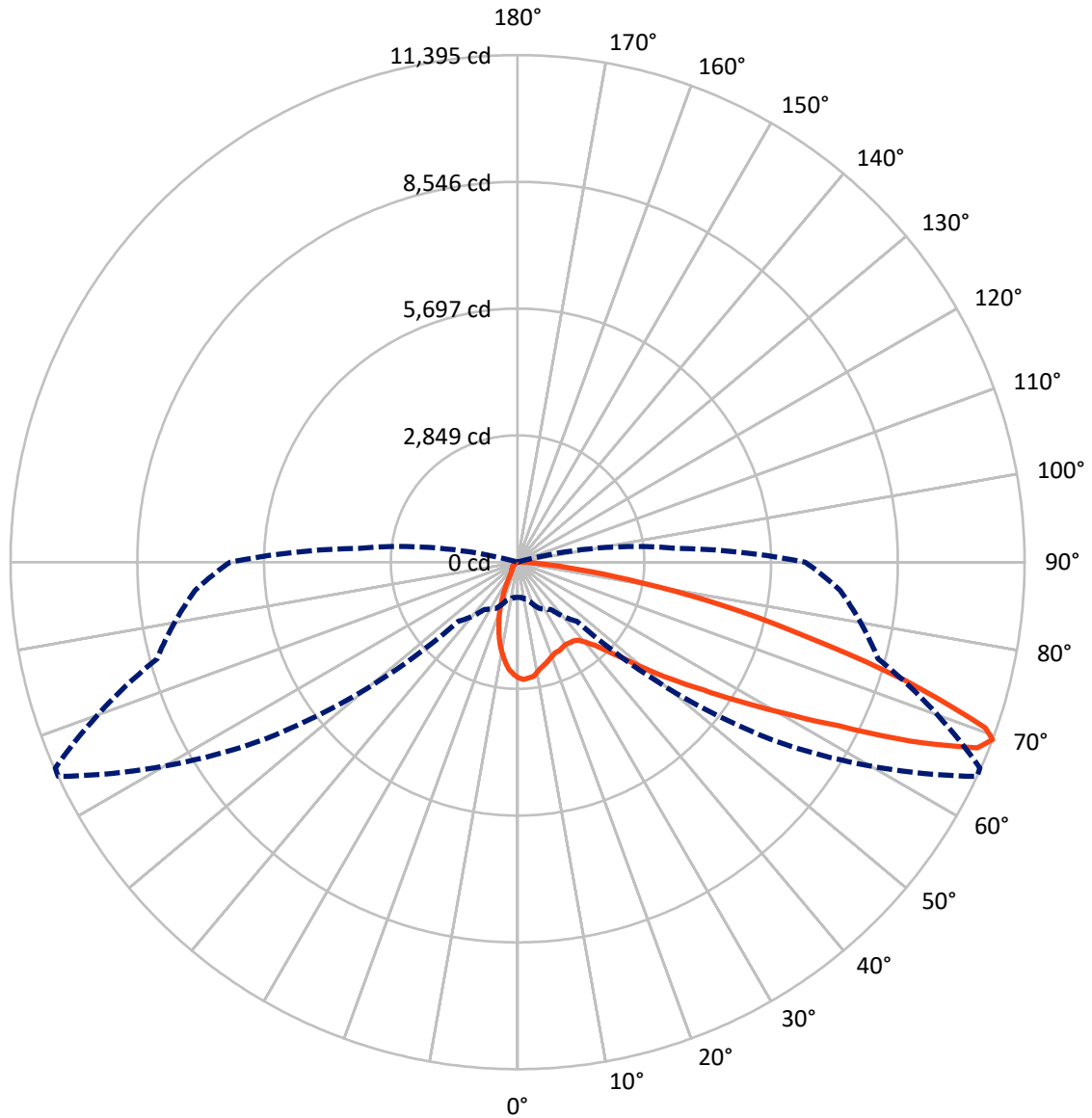
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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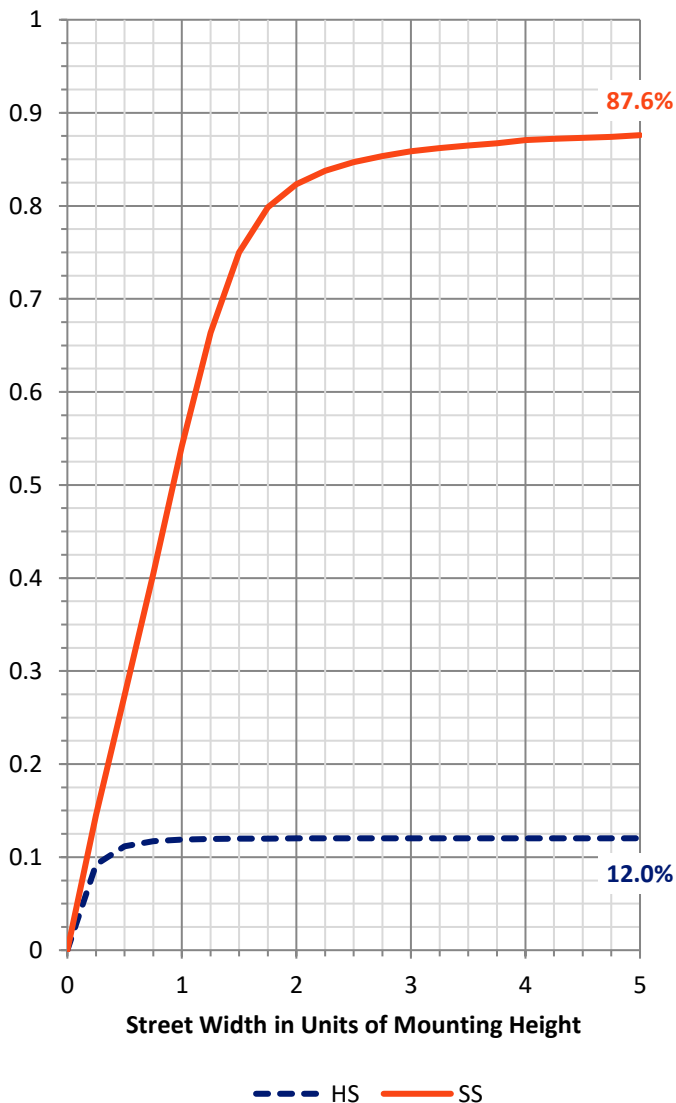
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1251.4	0.0	1251.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	9064.6	0.0	9064.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	10316.0	0.0	10316.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.8	2.1
10°-20°	465.7	4.5
20°-30°	648.3	6.3
30°-40°	918.8	8.9
40°-50°	1447.9	14.0
50°-60°	2349.5	22.8
60°-70°	2623.9	25.4
70°-80°	1477.6	14.3
80°-90°	171.5	1.7
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°	10316.0	100.0
0°-180°	10316.0	100.0



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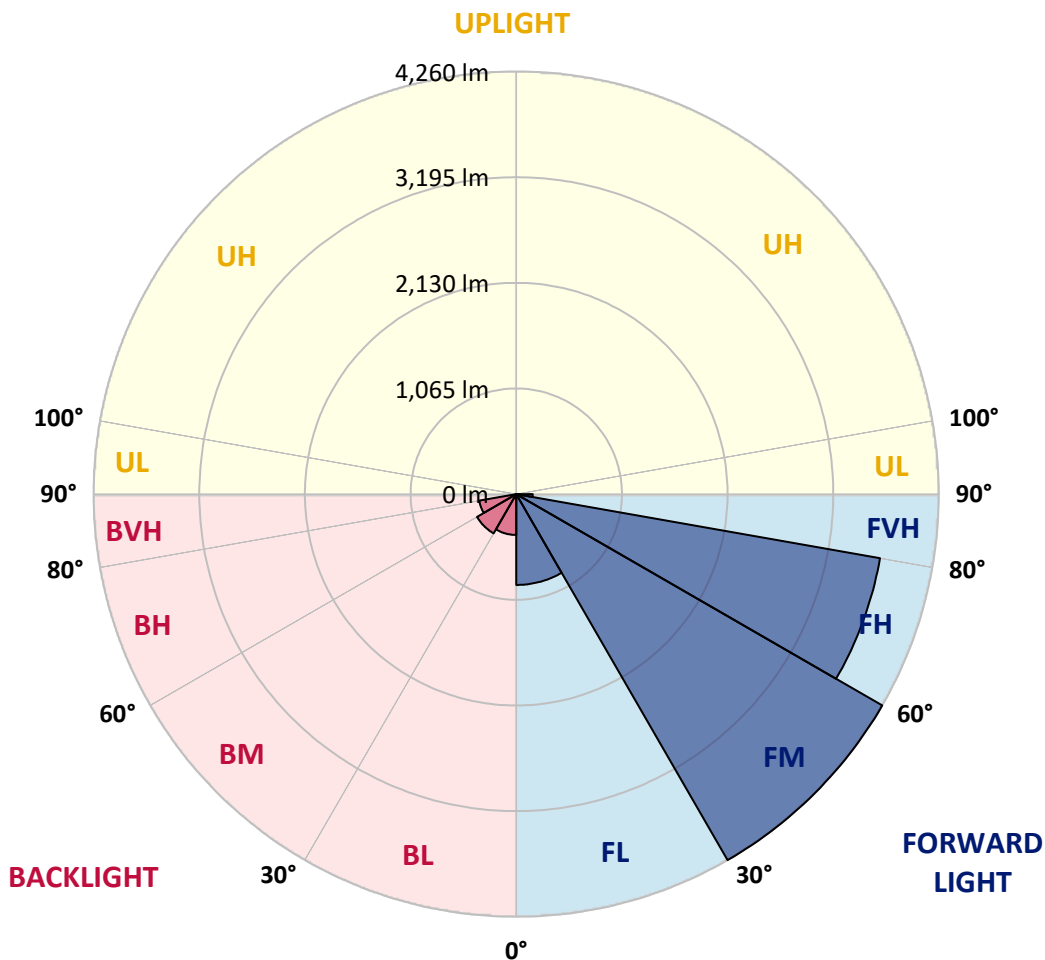
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	915.4	8.9			
FM (30°-60°)	4259.6	41.3			
FH (60°-80°)	3722.9	36.1			G2/5000
FVH (80°-90°)	166.7	1.6			G2/225
BL (0°-30°)	411.4	4.0	B1/500		
BM (30°-60°)	456.6	4.4	B1/1000		
BH (60°-80°)	378.6	3.7	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2600.9	2600.9	2600.9	2600.9	2600.9	2600.9	2600.9	2600.9	2600.9	2600.9	2600.9
2.5°	2504.9	2524.4	2529.9	2549.4	2559.2	2600.9	2624.6	2638.5	2631.5	2646.8	2648.2
5°	2326.8	2315.6	2344.9	2365.7	2410.3	2482.6	2556.4	2613.4	2639.9	2664.9	2660.8
7.5°	2136.1	2130.6	2159.8	2207.1	2247.4	2335.1	2453.4	2594.0	2588.4	2649.6	2667.7
10°	2005.3	2010.9	2020.6	2067.9	2127.8	2216.8	2364.3	2495.2	2524.4	2653.8	2690.0
12.5°	1885.6	1895.4	1913.5	1962.2	2031.7	2123.6	2266.9	2420.0	2464.5	2630.1	2702.5
15°	1846.7	1824.4	1860.6	1896.8	1969.1	2051.2	2172.3	2362.9	2382.4	2602.3	2723.4
17.5°	1814.7	1800.7	1817.4	1846.7	1923.2	1990.0	2104.1	2301.7	2337.9	2591.2	2720.6
20°	1824.4	1811.9	1818.8	1841.1	1875.9	1938.5	2044.3	2243.3	2282.2	2539.7	2716.4
22.5°	1852.2	1862.0	1849.4	1855.0	1866.1	1898.2	2012.3	2201.5	2234.9	2529.9	2740.1
25°	1977.5	1960.8	1944.1	1937.1	1871.7	1885.6	2002.5	2198.7	2222.4	2495.2	2720.6
27.5°	2108.3	2094.4	2087.4	2047.1	1958.0	1916.2	2003.9	2159.8	2191.8	2481.2	2696.9
30°	2266.9	2285.0	2257.2	2208.5	2084.6	1981.6	2019.2	2140.3	2184.8	2428.4	2681.6
32.5°	2433.9	2443.7	2457.6	2421.4	2261.4	2080.5	2065.1	2158.4	2161.2	2428.4	2646.8
35°	2623.2	2609.3	2645.4	2648.2	2507.7	2255.8	2152.8	2170.9	2200.1	2417.2	2634.3
37.5°	2786.0	2809.7	2851.4	2918.2	2773.5	2503.5	2289.2	2229.4	2241.9	2468.7	2644.1
40°	2964.1	2987.8	3082.4	3149.2	3067.1	2781.8	2496.5	2365.7	2375.5	2545.3	2694.2
42.5°	3160.3	3206.3	3319.0	3435.9	3413.6	3135.3	2763.7	2566.1	2561.9	2735.9	2797.1
45°	3426.1	3487.4	3609.8	3744.8	3764.3	3540.2	3120.0	2865.3	2879.2	2985.0	3010.0
47.5°	3796.3	3793.5	3913.2	4063.5	4176.2	3960.5	3545.8	3267.5	3266.1	3378.8	3325.9
50°	4153.9	4155.3	4187.3	4361.3	4653.5	4543.6	4073.2	3801.9	3786.6	3842.2	3757.3
52.5°	4319.5	4300.1	4276.4	4486.5	5020.9	5278.4	4741.2	4407.2	4394.7	4361.3	4339.0
55°	4145.6	4152.6	4151.2	4369.6	5214.4	6053.5	5598.4	5073.8	5052.9	4948.6	4979.2
57.5°	3587.6	3565.3	3614.0	3954.9	4993.1	6582.3	6824.4	5914.3	5860.1	5513.5	5444.0
60°	2670.5	2677.5	2717.8	3120.0	4443.4	6693.6	7997.6	6901.0	6667.2	5911.5	5815.5
62.5°	1864.8	1850.8	1866.1	2091.6	3177.0	6248.3	8790.8	8100.5	7875.1	6363.8	6308.2
65°	1334.6	1316.5	1377.7	1515.5	1907.9	4777.4	8903.5	9698.1	9496.3	7086.1	6952.5
67.5°	960.2	957.4	1028.4	1278.9	1355.4	2751.2	8068.5	11145.4	11022.9	7943.3	7344.9
69°	794.6	796.0	864.2	1145.3	1294.2	1878.7	6942.7	11394.5	11372.2	8385.8	7271.1
70°	693.0	698.6	777.9	1066.0	1269.1	1544.7	5985.3	11149.6	11127.3	8472.1	7027.6
72.5°	427.2	431.4	535.8	854.4	1206.5	1260.8	3579.2	9122.0	9198.5	8076.9	6054.9
75°	204.6	206.0	281.1	617.9	1163.4	1195.4	1917.6	6731.2	6892.6	6521.1	4731.5
77.5°	108.5	108.5	135.0	328.4	942.1	1124.4	1138.3	4748.2	4881.8	4123.3	2690.0
80°	54.3	55.7	82.1	171.2	584.5	1102.2	889.2	2831.9	2904.3	1682.5	837.7
82.5°	20.9	22.3	39.0	103.0	303.4	931.0	780.7	1393.0	1374.9	393.8	204.6
85°	2.8	2.8	13.9	61.2	129.4	410.5	644.3	581.7	562.2	86.3	98.8
87.5°	0.0	0.0	2.8	18.1	39.0	119.7	249.1	160.0	178.1	23.7	48.7
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°	2600.9	2600.9	2600.9	2600.9	2600.9	2600.9	2600.9	2600.9	2600.9	2600.9	2600.9
2.5°	2641.3	2612.0	2567.5	2524.4	2478.5	2422.8	2361.6	2339.3	2300.3	2297.5	2319.8
5°	2638.5	2591.2	2513.2	2421.4	2290.6	2191.8	2084.6	2006.7	1946.9	1907.9	1917.6
7.5°	2652.4	2595.3	2460.4	2262.8	2094.4	1898.2	1732.6	1618.4	1514.1	1462.6	1457.0
10°	2630.1	2553.6	2356.0	2079.1	1831.4	1557.2	1315.1	1162.0	1006.1	949.1	951.9
12.5°	2642.7	2535.5	2243.3	1889.8	1548.9	1192.6	903.2	694.4	548.3	501.0	495.4
15°	2651.0	2496.5	2134.7	1663.0	1235.7	812.7	523.2	393.8	347.9	339.6	338.2
17.5°	2619.0	2449.2	1981.6	1438.9	915.7	494.0	347.9	321.5	313.1	307.5	304.8
20°	2617.6	2421.4	1849.4	1209.3	610.9	336.8	300.6	290.8	278.3	274.1	274.1
22.5°	2594.0	2362.9	1690.8	957.4	389.7	289.5	270.0	254.7	240.7	235.2	233.8
25°	2587.0	2294.8	1541.9	719.5	296.4	258.8	239.4	217.1	200.4	192.0	187.9
27.5°	2567.5	2236.3	1391.6	506.5	258.8	231.0	206.0	182.3	162.8	150.3	148.9
30°	2497.9	2175.1	1224.6	350.7	235.2	204.6	176.7	148.9	129.4	121.1	118.3
32.5°	2468.7	2118.0	1042.3	270.0	214.3	180.9	148.9	123.9	108.5	100.2	98.8
35°	2433.9	2034.5	865.6	235.2	194.8	157.3	125.2	104.4	91.8	84.9	84.9
37.5°	2438.1	1967.7	700.0	212.9	174.0	135.0	107.2	89.1	77.9	71.0	71.0
40°	2425.6	1914.9	544.1	193.4	154.5	115.5	90.5	75.1	65.4	58.4	57.1
42.5°	2482.6	1900.9	410.5	176.7	135.0	98.8	77.9	64.0	54.3	45.9	45.9
45°	2578.6	1923.2	320.1	161.4	115.5	84.9	66.8	52.9	43.1	37.6	36.2
47.5°	2834.7	2010.9	250.5	148.9	98.8	73.8	55.7	43.1	34.8	29.2	27.8
50°	3206.3	2207.1	212.9	130.8	83.5	62.6	45.9	33.4	27.8	22.3	20.9
52.5°	3735.1	2536.9	193.4	115.5	69.6	51.5	36.2	26.4	20.9	16.7	15.3
55°	4311.2	2948.8	175.3	97.4	58.4	41.7	29.2	20.9	15.3	11.1	9.7
57.5°	4760.7	3305.1	160.0	80.7	47.3	33.4	22.3	15.3	11.1	7.0	5.6
60°	5251.9	3555.6	140.6	64.0	39.0	25.0	16.7	11.1	8.3	4.2	4.2
62.5°	5758.5	3849.2	115.5	50.1	30.6	19.5	12.5	8.3	5.6	1.4	1.4
65°	6462.6	4078.8	89.1	39.0	23.7	13.9	9.7	7.0	2.8	0.0	0.0
67.5°	6661.6	3966.1	65.4	30.6	16.7	9.7	7.0	4.2	1.4	0.0	0.0
69°	6462.6	3572.3	57.1	26.4	13.9	8.3	5.6	2.8	1.4	0.0	0.0
70°	6099.4	3266.1	50.1	22.3	12.5	8.3	4.2	2.8	1.4	0.0	0.0
72.5°	5101.6	2504.9	39.0	16.7	9.7	7.0	4.2	2.8	0.0	0.0	0.0
75°	3742.0	1547.5	29.2	12.5	8.3	5.6	4.2	2.8	0.0	0.0	0.0
77.5°	2005.3	565.0	20.9	8.3	5.6	4.2	4.2	2.8	0.0	0.0	0.0
80°	549.7	167.0	15.3	5.6	4.2	2.8	2.8	1.4	0.0	0.0	0.0
82.5°	150.3	43.1	9.7	5.6	4.2	2.8	1.4	0.0	0.0	0.0	0.0
85°	80.7	16.7	5.6	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	41.7	5.6	4.2	2.8	2.8	1.4	0.0	0.0	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)