

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: P484353

Luminaire Tested: **IFLD-S-SA2B-735-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484353
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-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

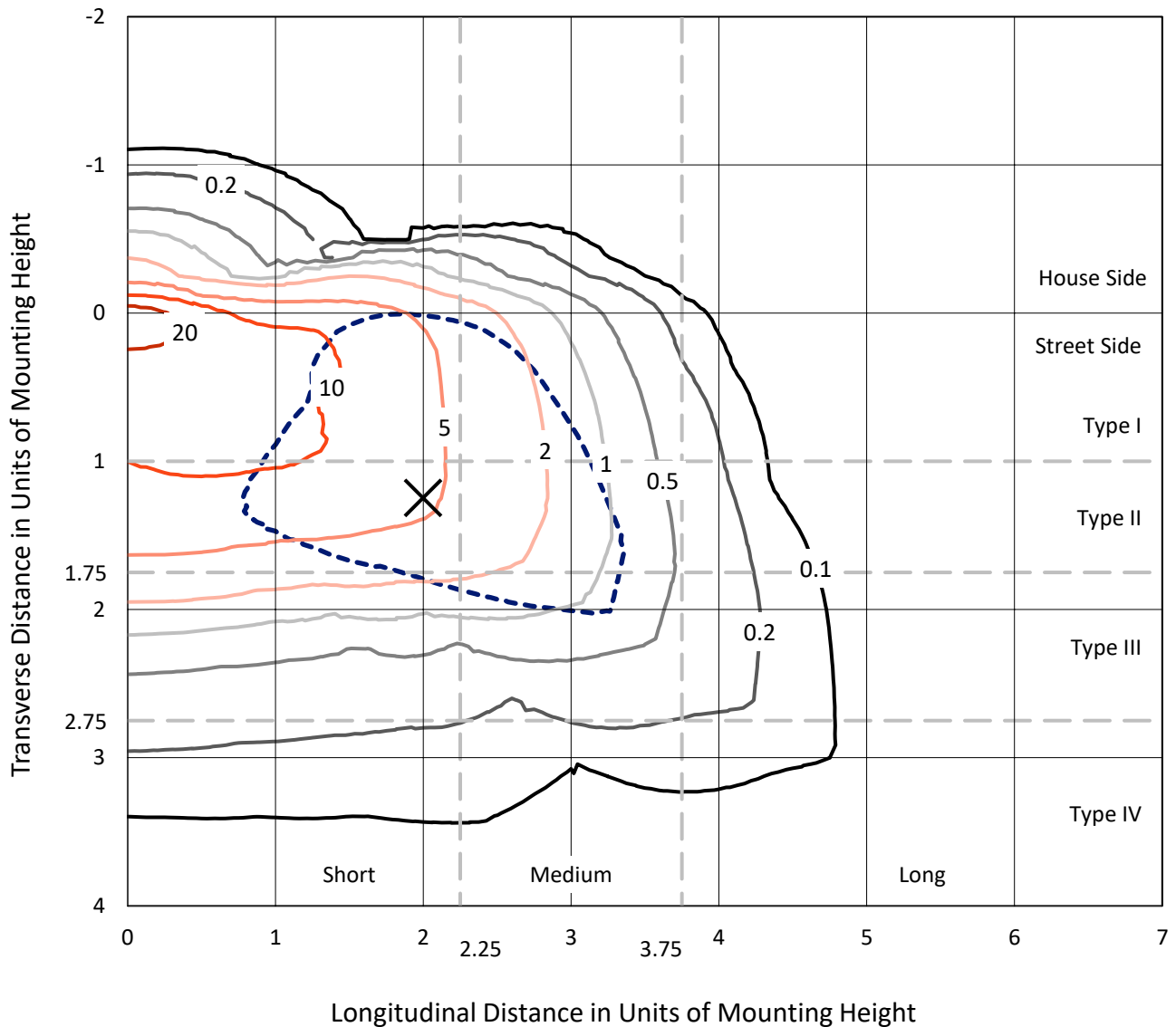
Lumens per Lamp: N/A
Luminaire Lumens: 9417.8 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

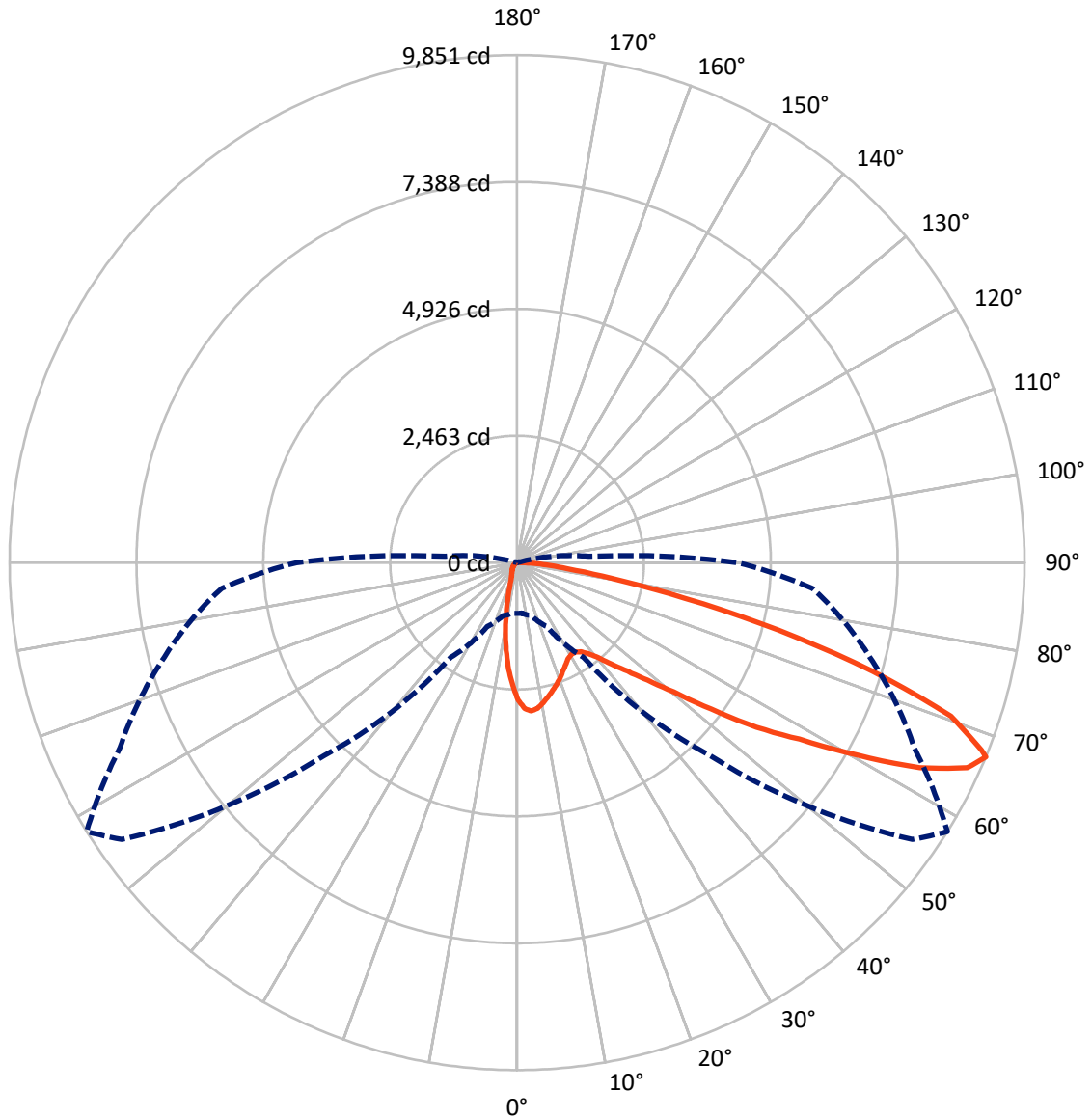
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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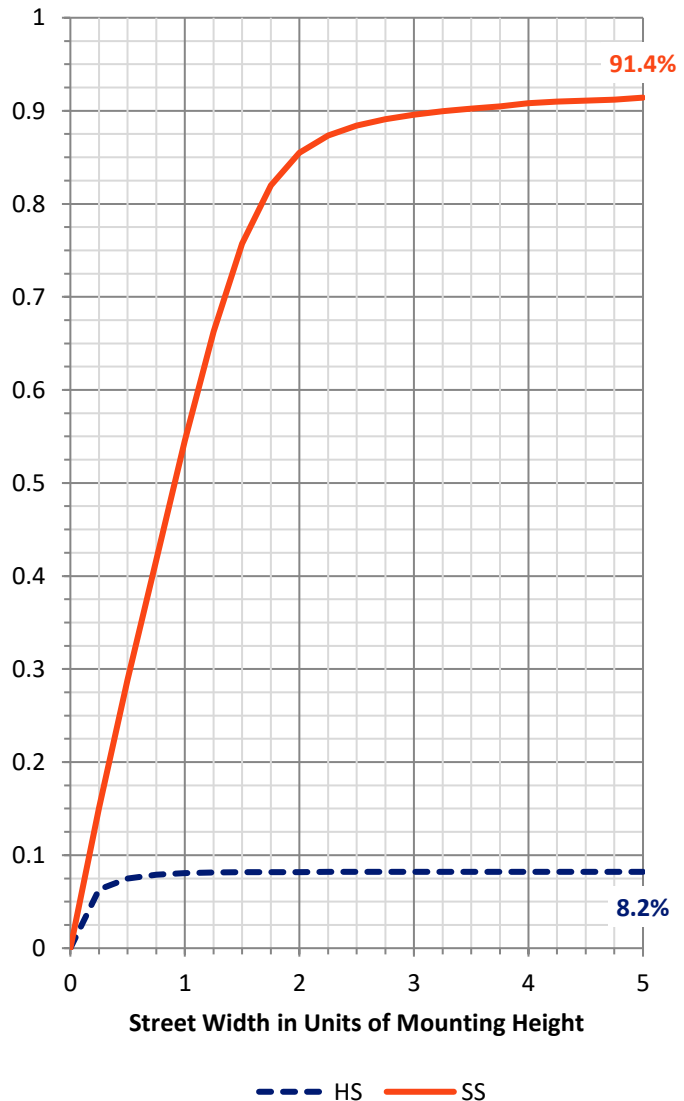
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	778.5	0.0	778.5
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	8639.4	0.0	8639.4
	% Fixture	91.7	0.0	91.7
Total	Lumens	9417.8	0.0	9417.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	2.2
10°-20°	439.1	4.7
20°-30°	582.6	6.2
30°-40°	807.3	8.6
40°-50°	1317.3	14.0
50°-60°	2315.4	24.6
60°-70°	2564.5	27.2
70°-80°	1062.7	11.3
80°-90°	117.0	1.2
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°	9417.8	100.0
0°-180°	9417.8	100.0

Coefficient of Utilization



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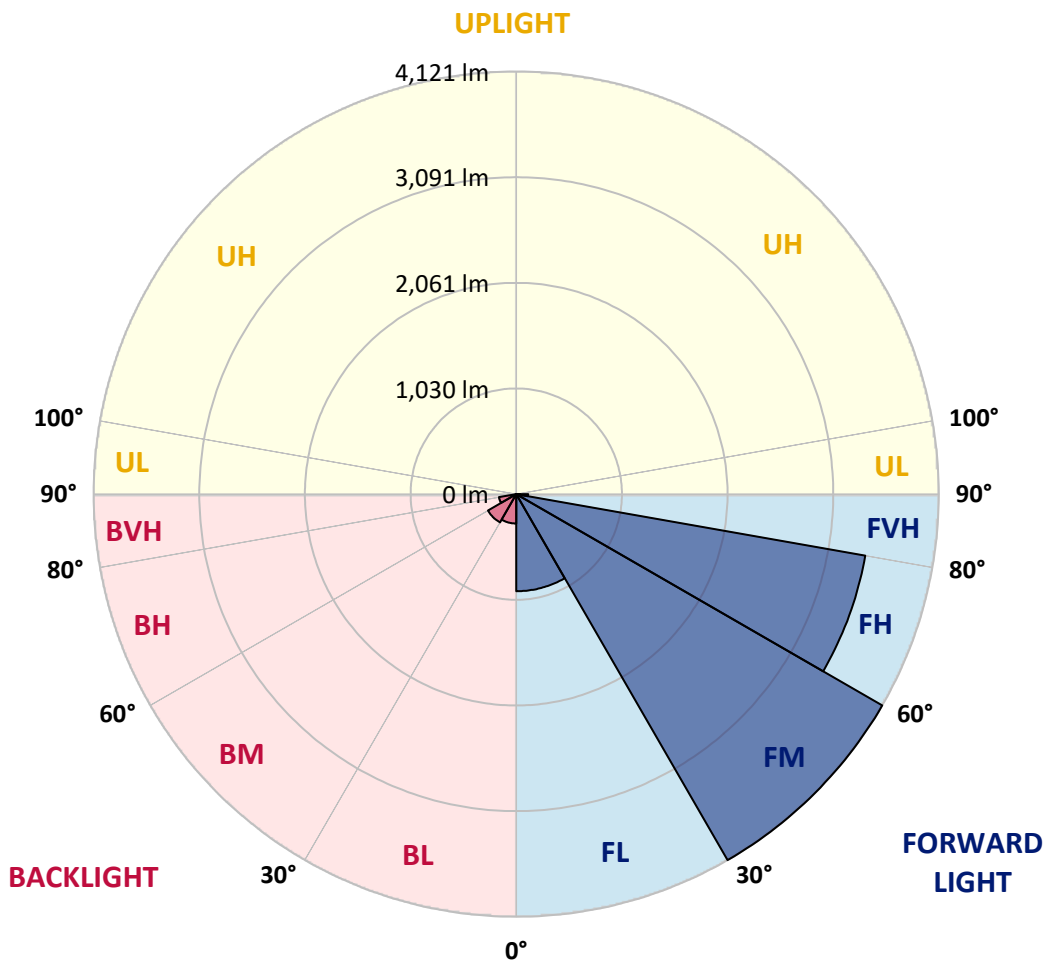
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.8	10.1			
FM (30°-60°)	4121.4	43.8			
FH (60°-80°)	3456.1	36.7			G2/5000
FVH (80°-90°)	115.1	1.2			G2/225
BL (0°-30°)	286.7	3.0	B1/500		
BM (30°-60°)	318.7	3.4	B1/1000		
BH (60°-80°)	171.2	1.8	B1/500		G1/500
BVH (80°-90°)	1.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2
2.5°	2903.3	2913.3	2922.0	2905.8	2919.5	2899.5	2848.2	2837.0	2828.2	2752.0	2708.2
5°	2902.0	2890.8	2899.5	2907.0	2888.3	2903.3	2890.8	2892.0	2858.2	2789.5	2666.9
7.5°	2708.2	2703.2	2708.2	2744.5	2785.7	2818.2	2837.0	2855.7	2833.2	2730.7	2611.9
10°	2446.9	2471.9	2485.6	2550.7	2614.4	2674.4	2733.2	2768.2	2762.0	2720.7	2551.9
12.5°	2264.3	2256.8	2306.9	2349.4	2413.1	2534.4	2636.9	2669.4	2707.0	2649.4	2473.1
15°	2095.5	2075.5	2105.5	2179.3	2288.1	2384.4	2528.2	2576.9	2624.4	2639.4	2430.6
17.5°	1934.3	1944.3	1975.5	2041.8	2144.3	2279.3	2414.4	2484.4	2598.2	2578.2	2366.9
20°	1856.7	1878.0	1889.2	1923.0	1994.3	2129.3	2330.6	2386.9	2508.2	2576.9	2304.3
22.5°	1860.5	1860.5	1834.2	1854.2	1919.2	2024.3	2216.8	2279.3	2471.9	2511.9	2248.1
25°	1900.5	1875.5	1876.7	1853.0	1880.5	1938.0	2114.3	2190.6	2398.1	2518.2	2218.1
27.5°	1930.5	1925.5	1918.0	1911.7	1876.7	1885.5	2046.8	2109.3	2369.4	2510.7	2171.8
30°	2039.3	2016.8	2009.3	1995.5	1949.3	1906.7	1993.0	2071.8	2346.9	2528.2	2145.6
32.5°	2130.6	2134.3	2140.6	2100.5	2060.5	1955.5	2008.0	2070.5	2330.6	2568.2	2171.8
35°	2245.6	2261.8	2264.3	2251.8	2209.3	2105.5	2070.5	2124.3	2358.1	2639.4	2174.3
37.5°	2420.6	2403.1	2450.6	2455.6	2425.6	2288.1	2215.6	2236.8	2439.4	2753.2	2269.3
40°	2534.4	2555.7	2644.4	2699.5	2648.2	2523.2	2425.6	2421.9	2556.9	2932.0	2386.9
42.5°	2660.7	2708.2	2805.7	2924.5	2918.3	2802.0	2703.2	2686.9	2765.7	3190.8	2573.2
45°	2833.2	2875.7	3012.0	3190.8	3288.4	3189.6	3040.8	3008.3	3019.5	3543.4	2890.8
47.5°	3119.6	3108.3	3304.6	3480.9	3640.9	3564.7	3500.9	3405.9	3397.1	3958.5	3329.6
50°	3443.4	3440.9	3615.9	3816.0	4001.0	4149.8	4043.6	3939.8	3942.3	4522.4	3846.0
52.5°	3751.0	3799.7	3988.5	4187.3	4504.9	4665.0	4767.5	4726.2	4527.4	5026.3	4398.6
55°	3913.5	3956.0	4143.6	4486.2	4987.5	5398.9	5676.5	5641.5	5257.6	5594.0	4943.8
57.5°	3759.7	3788.5	4042.3	4491.2	5325.1	6242.9	6509.2	6465.4	6012.8	6027.8	5602.7
60°	3115.8	3160.8	3538.4	4064.8	5193.9	6893.0	7655.7	7589.5	6700.5	6576.7	6026.6
62.5°	2158.1	2188.1	2498.1	3153.3	4571.2	7119.4	8738.5	8774.8	7425.7	7004.3	6152.9
65°	1397.9	1395.4	1572.9	2016.8	3239.6	6434.2	9378.7	9603.7	8125.9	7069.3	6114.1
67°	987.8	984.0	1067.8	1367.9	2243.1	5301.4	9367.4	9851.3	8506.0	7088.1	5755.2
67.5°	911.5	907.7	987.8	1257.8	2024.3	4930.0	9227.4	9723.8	8639.7	7061.8	5597.7
70°	707.7	697.7	727.7	866.5	1179.1	3188.3	7897.1	8932.3	8362.2	6406.7	4469.9
72.5°	511.4	522.6	570.1	711.4	925.2	1715.4	6019.1	7223.1	6984.3	4828.8	2840.7
75°	356.3	366.3	442.6	580.2	849.0	1040.3	4069.8	5238.9	4865.0	2665.7	1210.3
77.5°	186.3	198.8	282.6	463.9	771.5	805.2	2431.9	3322.1	2578.2	949.0	333.8
80°	86.3	92.5	141.3	328.8	645.2	707.7	1417.9	1848.0	1031.5	212.6	115.0
82.5°	37.5	41.3	65.0	188.8	457.6	618.9	877.7	969.0	373.8	68.8	71.3
85°	7.5	8.8	25.0	100.0	221.3	375.1	616.4	575.1	187.5	33.8	56.3
87.5°	0.0	0.0	6.3	28.8	60.0	111.3	261.3	261.3	57.5	17.5	21.3
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°	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2
2.5°	2669.4	2624.4	2525.7	2434.4	2369.4	2295.6	2198.1	2154.3	2138.1	2115.6	2081.8
5°	2599.4	2544.4	2375.6	2205.6	2019.3	1878.0	1727.9	1640.4	1574.2	1532.9	1519.1
7.5°	2500.7	2388.1	2160.6	1888.0	1646.7	1436.6	1209.1	1055.3	956.5	916.5	879.0
10°	2421.9	2275.6	1929.3	1590.4	1269.1	961.5	705.2	570.1	467.6	428.9	423.9
12.5°	2319.4	2144.3	1712.9	1286.6	882.7	572.6	390.1	338.8	310.1	305.1	301.3
15°	2234.3	2025.5	1507.9	996.5	571.4	357.6	303.8	291.3	283.8	281.3	282.6
17.5°	2176.8	1898.0	1297.8	725.2	376.3	292.6	280.1	272.6	268.8	267.6	263.8
20°	2063.0	1790.5	1090.3	507.6	293.8	270.1	260.1	253.8	250.1	248.8	247.6
22.5°	1998.0	1654.2	882.7	353.8	261.3	245.1	237.6	232.6	226.3	222.6	221.3
25°	1933.0	1554.2	697.7	275.1	237.6	226.3	215.1	208.8	198.8	193.8	192.6
27.5°	1856.7	1455.4	537.6	238.8	213.8	202.6	191.3	181.3	168.8	163.8	161.3
30°	1813.0	1359.1	405.1	213.8	196.3	181.3	167.5	155.0	141.3	132.5	130.0
32.5°	1790.5	1271.6	303.8	195.1	177.5	161.3	143.8	128.8	116.3	108.8	107.5
35°	1763.0	1186.6	238.8	177.5	160.0	142.5	125.0	110.0	97.5	91.3	88.8
37.5°	1791.7	1136.5	198.8	163.8	146.3	126.3	107.5	92.5	82.5	76.3	75.0
40°	1870.5	1095.3	172.5	151.3	132.5	111.3	93.8	78.8	70.0	65.0	62.5
42.5°	1991.8	1095.3	156.3	138.8	120.0	97.5	80.0	68.8	60.0	55.0	53.8
45°	2211.8	1129.0	142.5	126.3	105.0	83.8	68.8	57.5	48.8	43.8	42.5
47.5°	2520.7	1206.6	131.3	115.0	93.8	73.8	60.0	48.8	40.0	35.0	33.8
50°	2935.8	1382.9	120.0	101.3	83.8	63.8	50.0	38.8	31.3	26.3	25.0
52.5°	3453.4	1632.9	108.8	93.8	71.3	53.8	40.0	31.3	23.8	20.0	18.8
55°	4001.0	1939.3	95.0	83.8	61.3	45.0	32.5	23.8	17.5	15.0	13.8
57.5°	4552.4	2175.6	83.8	72.5	50.0	36.3	26.3	18.8	12.5	10.0	8.8
60°	4845.0	2198.1	72.5	60.0	40.0	28.8	20.0	13.8	8.8	6.3	5.0
62.5°	4890.0	1998.0	62.5	48.8	32.5	22.5	13.8	10.0	5.0	2.5	2.5
65°	4658.7	1665.4	53.8	38.8	25.0	16.3	10.0	6.3	2.5	1.3	0.0
67°	4283.6	1395.4	46.3	32.5	20.0	12.5	7.5	3.8	1.3	0.0	0.0
67.5°	4138.6	1320.3	43.8	30.0	18.8	11.3	6.3	3.8	1.3	0.0	0.0
70°	3212.1	942.7	32.5	21.3	13.8	8.8	5.0	2.5	0.0	0.0	0.0
72.5°	1968.0	551.4	25.0	15.0	10.0	6.3	3.8	1.3	0.0	0.0	0.0
75°	825.2	190.0	21.3	11.3	7.5	3.8	2.5	1.3	0.0	0.0	0.0
77.5°	215.1	71.3	15.0	7.5	5.0	3.8	2.5	1.3	0.0	0.0	0.0
80°	87.5	32.5	10.0	5.0	5.0	3.8	2.5	1.3	0.0	0.0	0.0
82.5°	57.5	15.0	6.3	5.0	3.8	2.5	1.3	0.0	0.0	0.0	0.0
85°	43.8	8.8	3.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	18.8	5.0	3.8	2.5	2.5	0.0	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)