

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: P484709

Luminaire Tested: **IFLD-S-SA3B-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484709
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

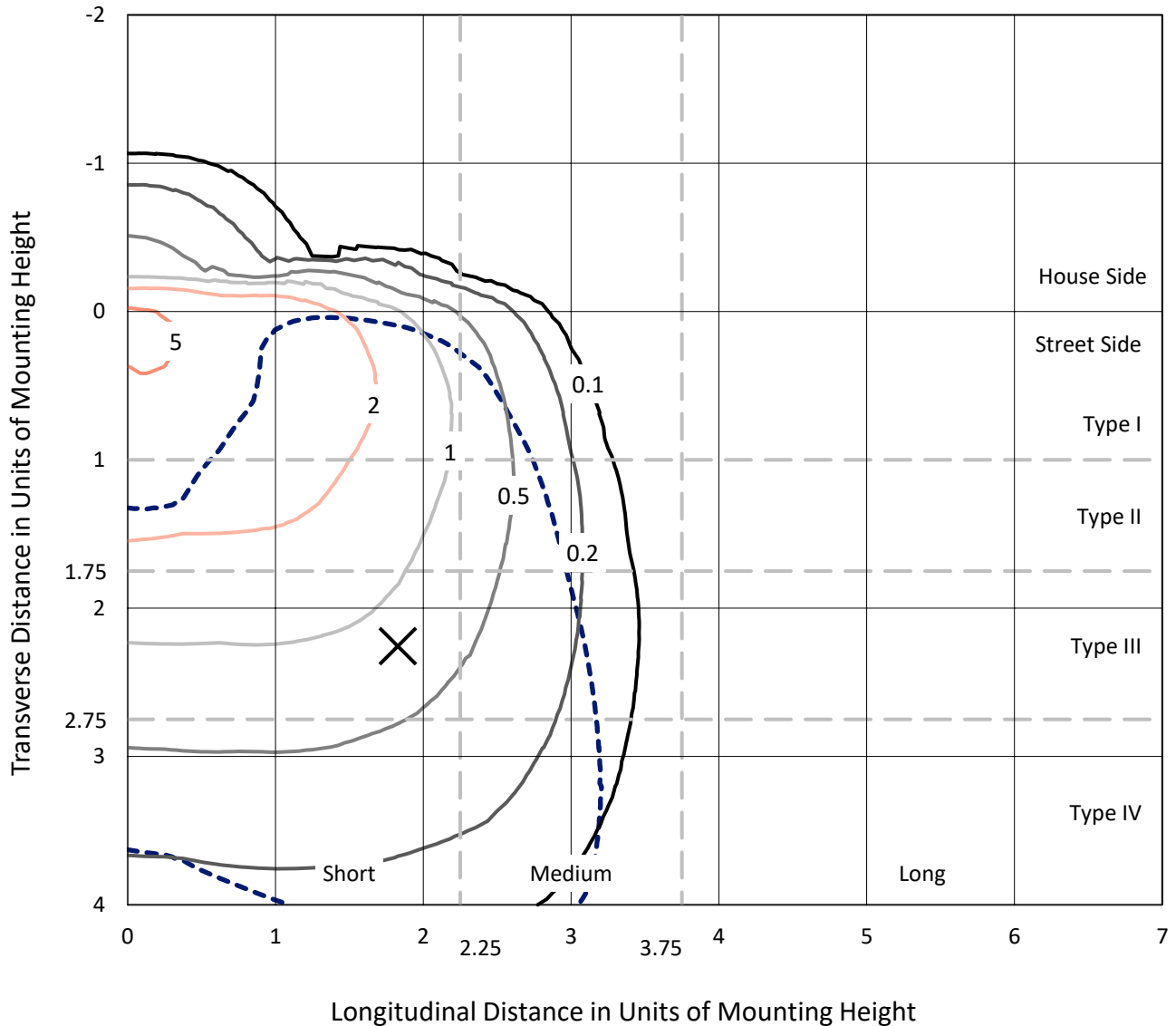
Lumens per Lamp: N/A
Luminaire Lumens: 12800.4 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

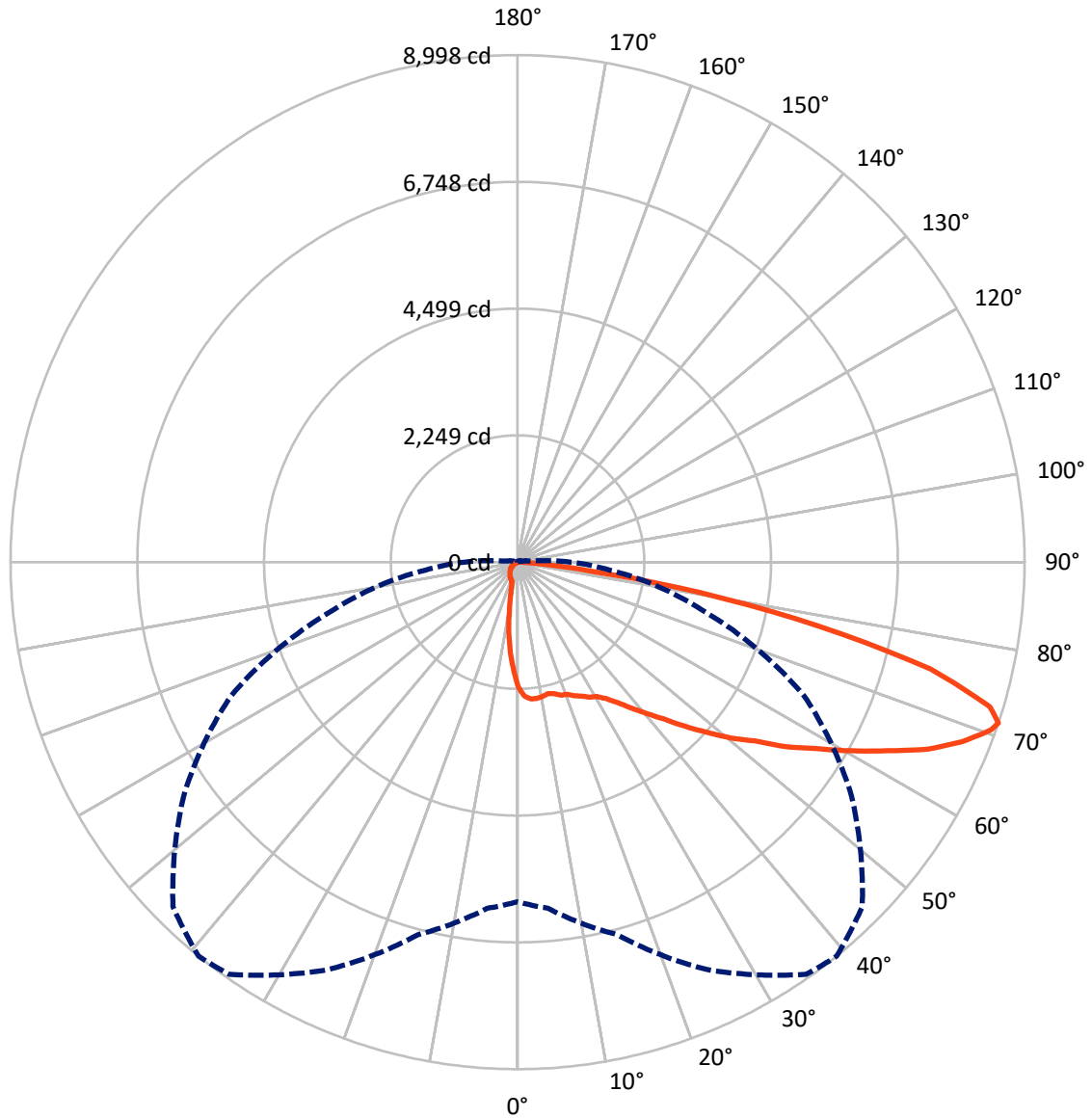
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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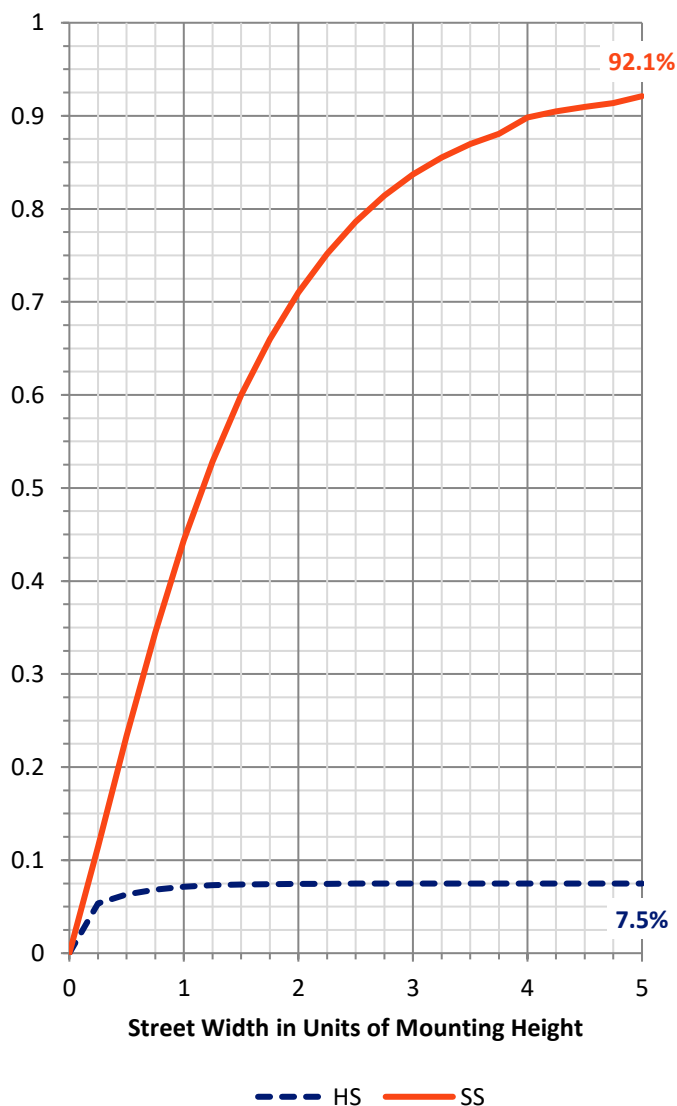
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	963.7	0.0	963.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	11836.7	0.0	11836.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	12800.4	0.0	12800.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	1.5
10°-20°	458.5	3.6
20°-30°	736.0	5.8
30°-40°	1126.7	8.8
40°-50°	1808.5	14.1
50°-60°	2656.4	20.8
60°-70°	3345.7	26.1
70°-80°	2232.8	17.4
80°-90°	249.5	1.9
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°	12800.4	100.0
0°-180°	12800.4	100.0

Coefficient of Utilization



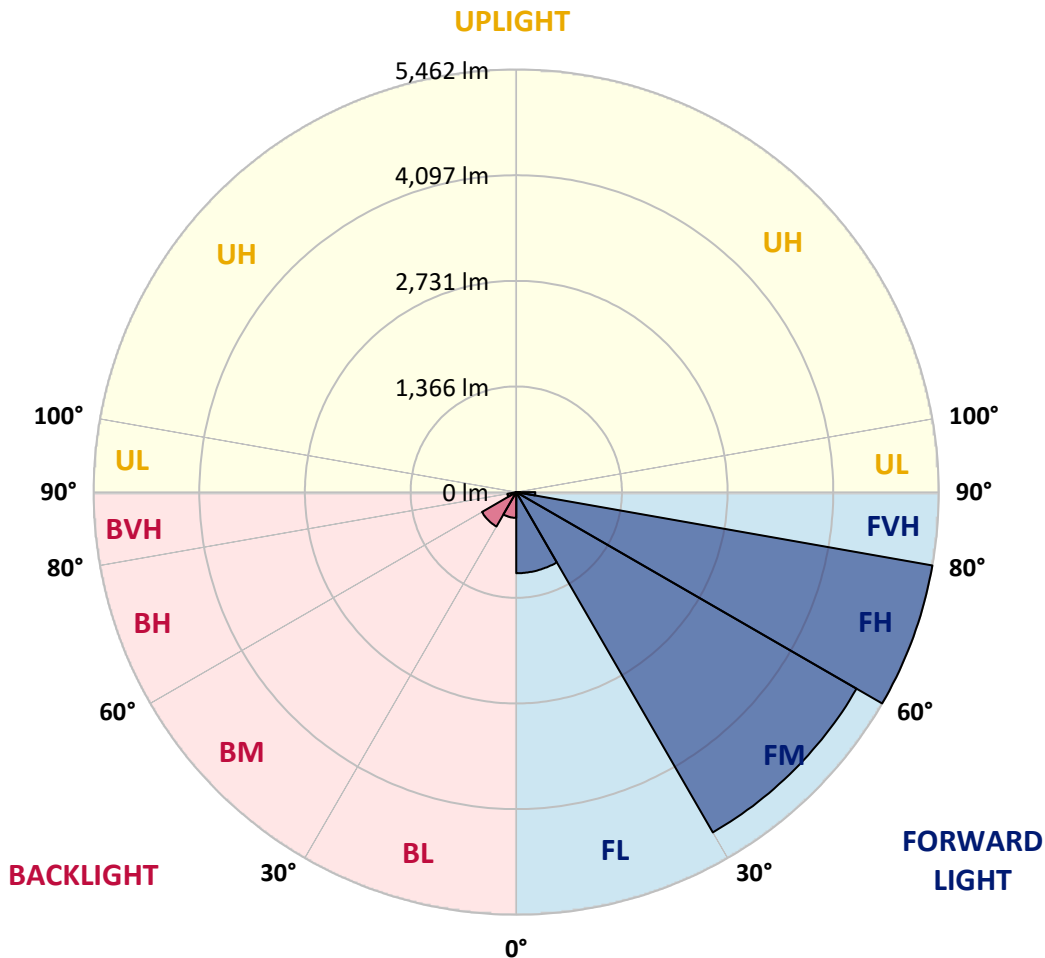
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1048.1	8.2			
FM (30°-60°)	5079.4	39.7			
FH (60°-80°)	5462.5	42.7			G3/7500
FVH (80°-90°)	246.8	1.9			G3/500
BL (0°-30°)	332.7	2.6	B1/500		
BM (30°-60°)	512.2	4.0	B1/1000		
BH (60°-80°)	116.0	0.9	B1/500		G1/500
BVH (80°-90°)	2.7	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2400.9	2424.4	2400.9	2390.9	2380.8	2382.5	2355.6	2360.6	2328.7	2286.8	2253.2
5°	2476.5	2508.4	2483.2	2471.4	2469.8	2437.9	2424.4	2392.5	2353.9	2288.4	2248.1
7.5°	2469.8	2463.0	2474.8	2464.7	2442.9	2442.9	2427.8	2382.5	2343.8	2270.0	2201.1
10°	2419.4	2439.5	2429.5	2417.7	2422.8	2424.4	2395.9	2364.0	2352.2	2278.4	2165.9
12.5°	2414.4	2380.8	2417.7	2419.4	2397.6	2395.9	2392.5	2384.1	2347.2	2280.0	2174.3
15°	2397.6	2384.1	2421.1	2422.8	2427.8	2422.8	2427.8	2421.1	2384.1	2345.5	2211.2
17.5°	2411.0	2395.9	2447.9	2473.1	2461.4	2484.9	2476.5	2446.3	2414.4	2369.0	2246.5
20°	2414.4	2436.2	2493.3	2503.3	2540.3	2501.7	2500.0	2468.1	2447.9	2399.2	2268.3
22.5°	2476.5	2486.6	2557.1	2578.9	2580.6	2575.5	2533.6	2496.6	2488.2	2427.8	2273.3
25°	2570.5	2605.8	2637.7	2651.1	2656.1	2632.6	2589.0	2542.0	2521.8	2483.2	2325.4
27.5°	2736.7	2714.9	2743.4	2763.6	2706.5	2714.9	2659.5	2619.2	2590.6	2557.1	2385.8
30°	2884.5	2864.3	2866.0	2862.6	2814.0	2768.6	2753.5	2683.0	2647.7	2661.2	2479.8
32.5°	3017.1	2973.5	3010.4	2993.6	2902.9	2889.5	2877.8	2788.8	2795.5	2857.6	2620.9
35°	3139.7	3124.6	3154.8	3124.6	3064.1	3060.8	3049.0	2971.8	3008.7	3097.7	2862.6
37.5°	3252.2	3257.2	3294.1	3279.0	3284.1	3287.4	3280.7	3198.4	3304.2	3504.0	3144.7
40°	3356.3	3349.5	3440.2	3487.2	3497.3	3534.2	3534.2	3514.1	3676.9	3901.9	3535.9
42.5°	3467.1	3483.9	3601.4	3680.3	3776.0	3807.9	3851.6	3861.6	4113.5	4370.4	3935.5
45°	3648.4	3619.9	3769.3	3955.6	4039.6	4152.1	4219.2	4276.3	4580.2	4932.8	4335.1
47.5°	3878.4	3821.3	3952.3	4222.6	4417.4	4509.7	4630.6	4706.1	5003.3	5367.7	4712.9
50°	4133.6	4074.9	4138.7	4511.4	4738.0	4905.9	5060.4	5156.1	5515.4	5854.6	4988.2
52.5°	4422.4	4368.7	4378.7	4811.9	5146.0	5268.6	5471.8	5614.5	5972.1	6148.4	5085.6
55°	4729.7	4716.2	4684.3	5105.7	5503.7	5779.0	5901.6	6072.8	6440.5	6307.9	5191.4
57.5°	5038.6	4996.6	5041.9	5495.3	6077.9	6242.4	6412.0	6514.4	6700.8	6447.2	5151.1
60°	5329.0	5332.4	5396.2	5918.4	6566.4	6799.8	6952.6	6890.5	6967.7	6507.7	5058.7
62.5°	5574.2	5567.5	5728.6	6393.5	7212.8	7370.7	7484.8	7207.8	7092.0	6566.4	4897.6
65°	5794.1	5869.7	6123.2	6959.3	7820.6	8002.0	7933.1	7508.3	7212.8	6393.5	4444.2
67.5°	5960.3	6072.8	6512.7	7491.6	8378.1	8505.7	8410.0	7736.7	7070.1	5715.2	3619.9
70°	6057.7	6171.9	6791.4	7934.8	8823.0	8915.3	8690.3	7560.4	6237.4	4138.7	2258.2
71°	6027.5	6166.9	6845.2	7981.8	8928.8	8997.6	8648.4	7234.7	5609.4	3465.4	1647.1
72.5°	5753.8	5884.8	6621.9	7948.2	8801.2	8759.2	8321.0	6452.3	4415.7	2209.5	851.2
75°	4227.6	4368.7	5683.3	6875.4	7855.9	7567.1	6734.3	4528.2	2303.5	676.6	248.5
77.5°	2105.4	2128.9	3527.5	4991.6	5762.2	5475.1	4513.1	2525.2	861.3	199.8	124.2
80°	970.4	977.2	1323.0	2585.6	3483.9	3279.0	2528.5	1245.8	389.5	105.8	97.4
82.5°	661.5	671.6	797.5	1071.2	1512.8	1276.0	1024.2	797.5	223.3	63.8	95.7
85°	120.9	110.8	446.6	567.5	584.3	396.2	354.3	690.1	83.9	36.9	83.9
87.5°	0.0	1.7	62.1	231.7	208.2	92.3	120.9	167.9	8.4	11.8	15.1
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°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2224.6	2206.2	2144.0	2075.2	2013.1	1964.4	1902.3	1873.7	1828.4	1803.2	1801.5
5°	2192.7	2142.4	2034.9	1919.1	1789.8	1682.3	1563.1	1496.0	1418.7	1395.2	1390.2
7.5°	2139.0	2066.8	1909.0	1746.1	1548.0	1358.3	1212.2	1056.1	960.4	920.1	905.0
10°	2105.4	2018.1	1803.2	1559.8	1282.7	1015.8	810.9	644.7	557.4	515.4	505.4
12.5°	2105.4	2011.4	1717.6	1381.8	1014.1	695.1	502.0	406.3	377.8	367.7	367.7
15°	2100.4	1998.0	1635.3	1198.8	750.5	466.8	374.4	354.3	350.9	349.2	347.5
17.5°	2125.6	1974.5	1551.4	1002.3	530.6	367.7	344.2	340.8	337.5	337.5	334.1
20°	2144.0	1961.0	1450.6	794.2	396.2	340.8	330.8	325.7	324.0	322.4	325.7
22.5°	2128.9	1940.9	1326.4	594.4	345.9	324.0	317.3	312.3	308.9	308.9	310.6
25°	2157.5	1922.4	1202.1	448.3	324.0	308.9	302.2	298.9	297.2	295.5	292.1
27.5°	2196.1	1930.8	1054.4	361.0	305.6	293.8	287.1	283.7	282.1	278.7	282.1
30°	2243.1	1929.1	891.5	315.6	288.8	277.0	270.3	268.6	265.3	263.6	265.3
32.5°	2323.7	1972.8	723.6	292.1	270.3	260.2	253.5	251.8	250.2	248.5	246.8
35°	2496.6	2026.5	565.8	273.7	253.5	241.8	236.7	233.4	231.7	230.0	228.3
37.5°	2709.9	2145.7	431.5	256.9	236.7	225.0	219.9	218.3	211.6	209.9	208.2
40°	2976.8	2273.3	332.4	238.4	221.6	209.9	204.8	199.8	191.4	188.0	184.7
42.5°	3309.2	2397.6	273.7	221.6	204.8	196.4	188.0	179.6	172.9	166.2	162.9
45°	3641.7	2542.0	240.1	206.5	191.4	181.3	174.6	162.9	151.1	141.0	139.4
47.5°	3918.7	2594.0	219.9	189.7	178.0	169.6	159.5	144.4	127.6	117.5	115.8
50°	4125.2	2563.8	199.8	172.9	162.9	154.5	141.0	122.6	105.8	95.7	92.3
52.5°	4165.5	2431.1	181.3	159.5	147.7	137.7	122.6	102.4	83.9	73.9	72.2
55°	4137.0	2211.2	166.2	147.7	134.3	119.2	102.4	82.3	65.5	55.4	53.7
57.5°	4078.2	1951.0	149.4	132.6	117.5	102.4	83.9	67.2	48.7	38.6	38.6
60°	3878.4	1596.7	132.6	115.8	100.7	87.3	68.8	48.7	33.6	25.2	23.5
62.5°	3599.7	1227.3	115.8	99.1	87.3	72.2	53.7	35.3	20.1	13.4	13.4
65°	3091.0	859.6	97.4	82.3	72.2	58.8	40.3	21.8	11.8	5.0	5.0
67.5°	2348.9	532.2	80.6	68.8	62.1	47.0	28.5	13.4	5.0	1.7	0.0
70°	1348.2	277.0	63.8	55.4	48.7	35.3	20.1	6.7	3.4	0.0	0.0
71°	941.9	204.8	57.1	48.7	43.7	31.9	16.8	5.0	1.7	0.0	0.0
72.5°	471.8	136.0	48.7	40.3	35.3	25.2	13.4	5.0	1.7	0.0	0.0
75°	167.9	87.3	33.6	26.9	25.2	18.5	8.4	3.4	1.7	0.0	0.0
77.5°	115.8	70.5	23.5	16.8	16.8	11.8	5.0	1.7	1.7	0.0	0.0
80°	105.8	38.6	15.1	10.1	8.4	6.7	3.4	1.7	0.0	0.0	0.0
82.5°	105.8	28.5	8.4	6.7	5.0	3.4	1.7	0.0	0.0	0.0	0.0
85°	73.9	15.1	5.0	5.0	3.4	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	5.0	3.4	1.7	1.7	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)