

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: P483794

Luminaire Tested: **IFLD-M-SA4C-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483794
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W
distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

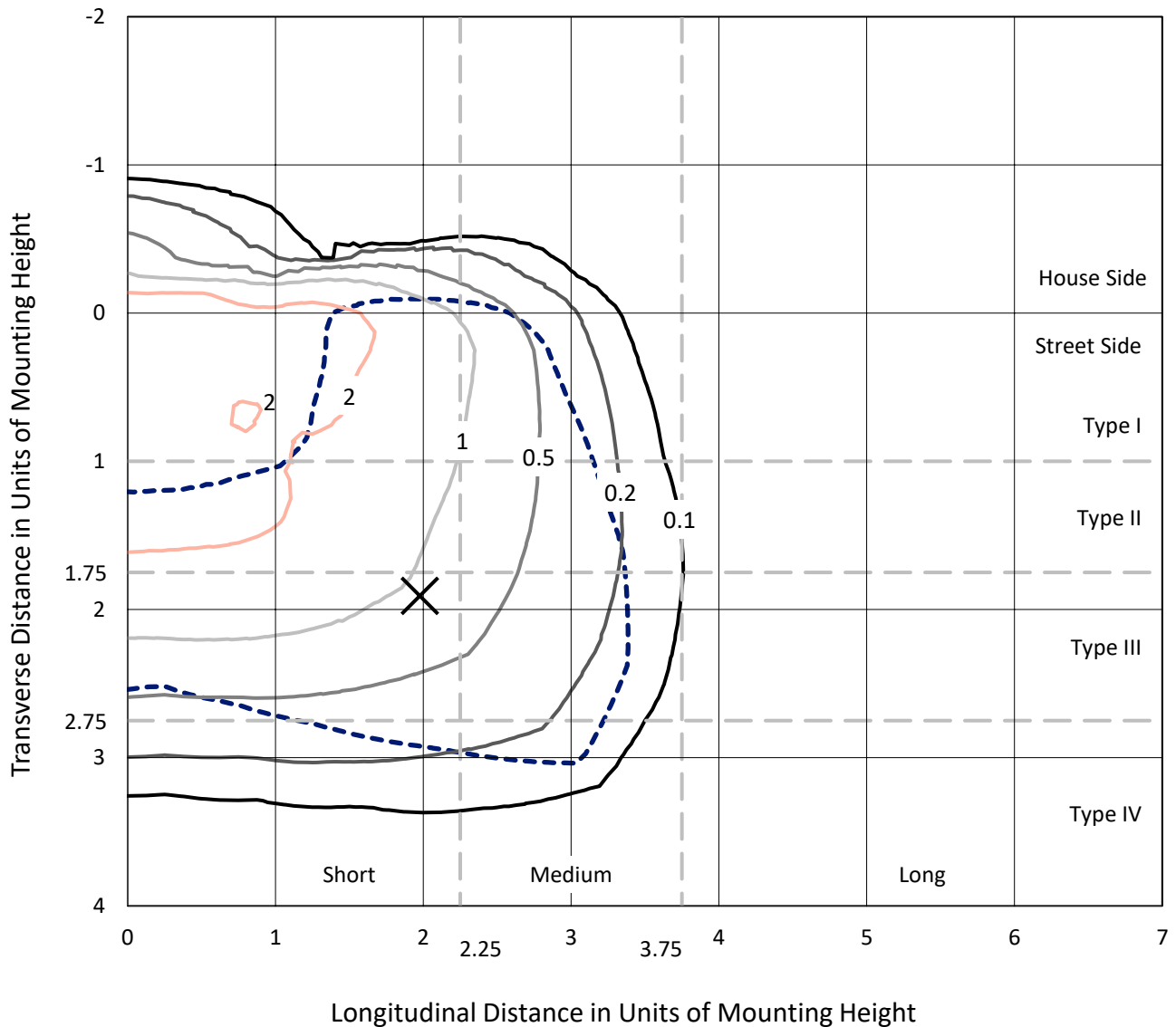
Lumens per Lamp: N/A
Luminaire Lumens: 16669.1 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 218.1
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

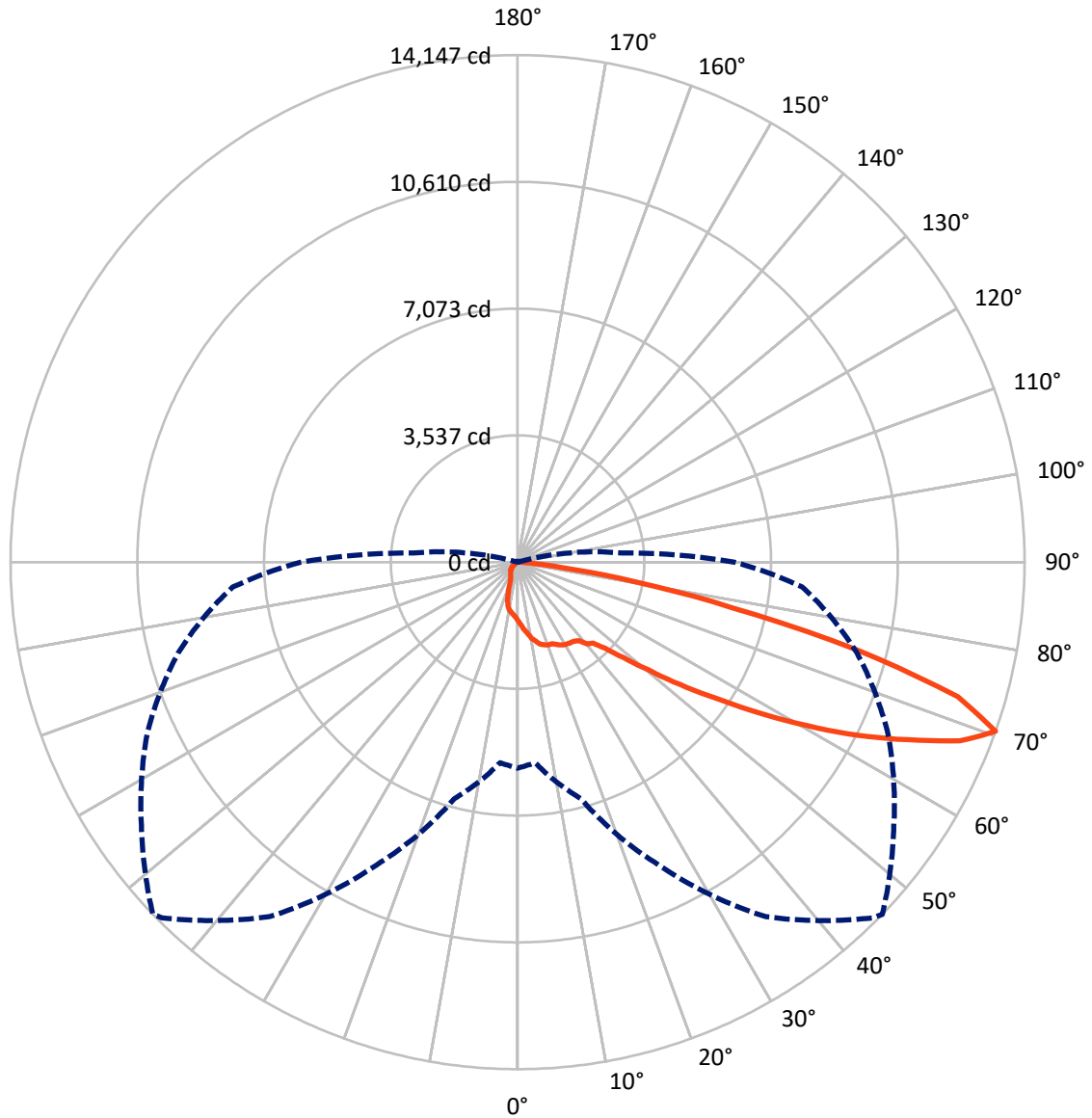
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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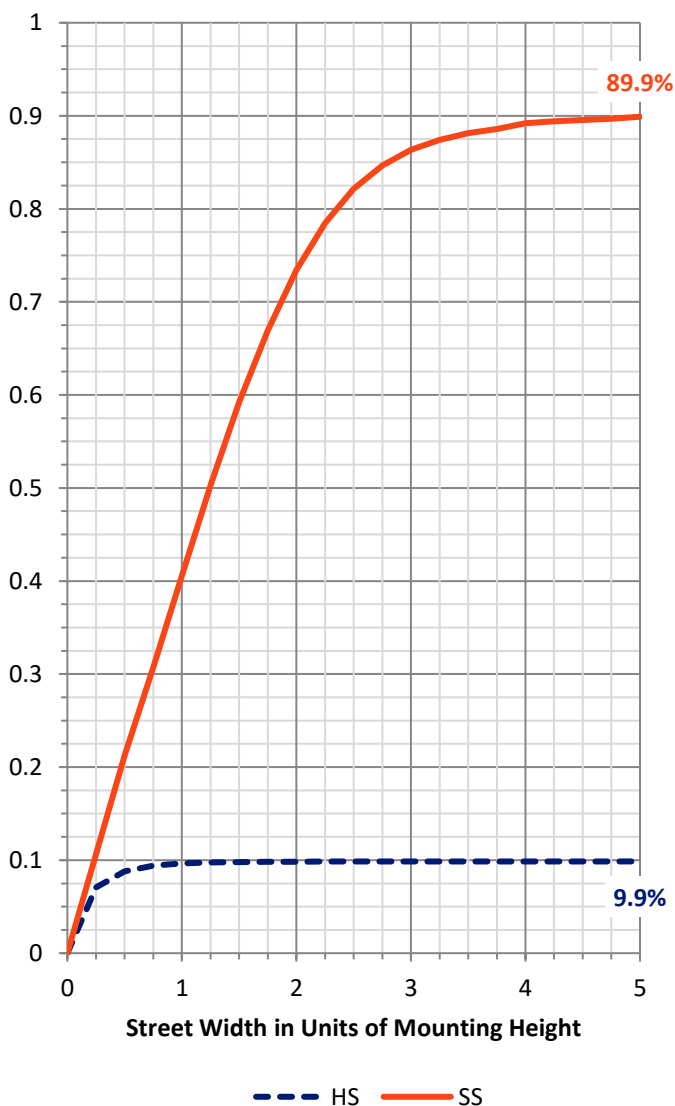
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1658.6	0.0	1658.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	15010.4	0.0	15010.4
	% Fixture	90.0	0.0	90.0
Total	Lumens	16669.1	0.0	16669.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	1.0
10°-20°	492.7	3.0
20°-30°	789.3	4.7
30°-40°	1126.6	6.8
40°-50°	1945.3	11.7
50°-60°	3724.5	22.3
60°-70°	5515.3	33.1
70°-80°	2731.7	16.4
80°-90°	180.5	1.1
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°	16669.1	100.0
0°-180°	16669.1	100.0

Coefficient of Utilization



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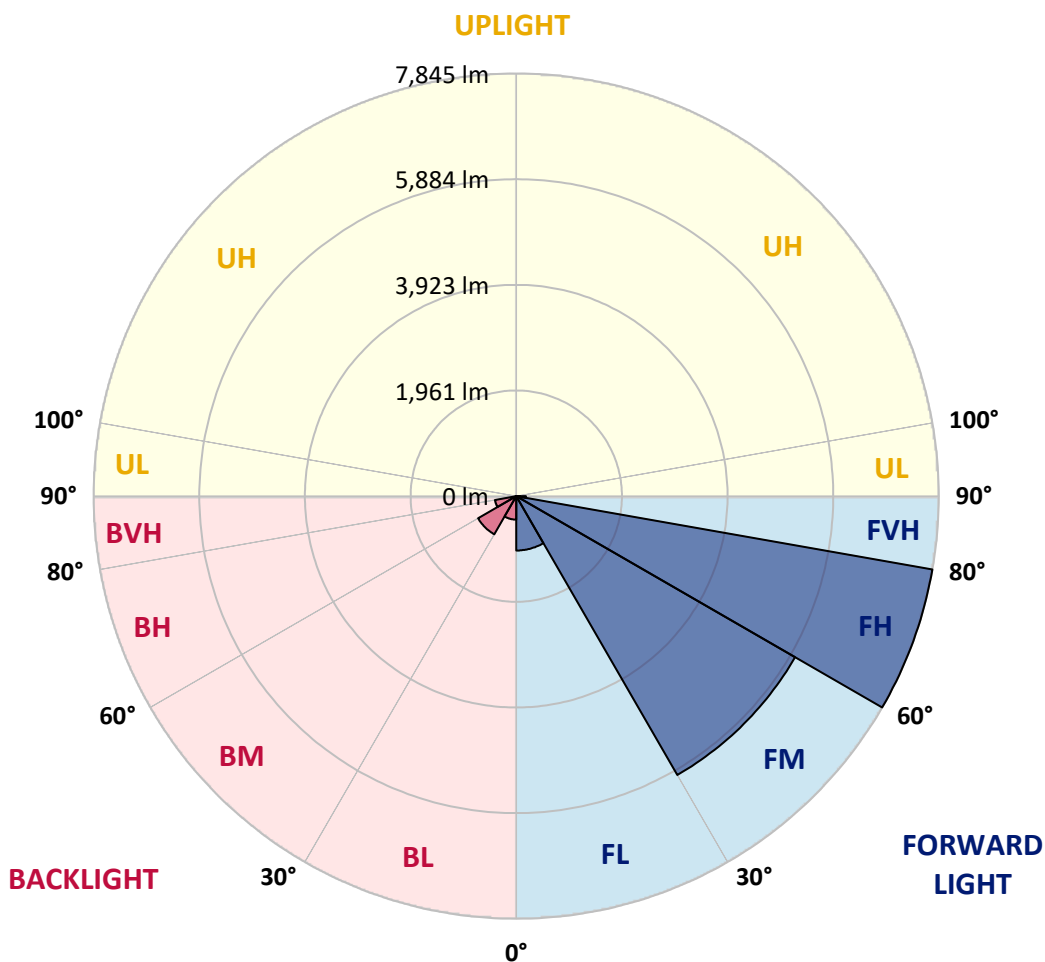
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1009.4	6.1			
FM (30°-60°)	5977.5	35.9			
FH (60°-80°)	7845.3	47.1			G4/12000
FVH (80°-90°)	178.2	1.1			G2/225
BL (0°-30°)	435.8	2.6	B1/500		
BM (30°-60°)	818.9	4.9	B1/1000		
BH (60°-80°)	401.7	2.4	B1/500		G1/500
BVH (80°-90°)	2.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4
2.5°	1825.9	1813.9	1794.7	1787.5	1768.3	1758.7	1744.4	1737.2	1710.8	1684.4	1667.6
5°	2049.1	2020.3	2029.9	2001.1	1938.7	1888.3	1885.9	1830.7	1770.7	1722.8	1658.0
7.5°	2274.6	2250.6	2214.6	2173.8	2104.3	2029.9	2008.3	1955.5	1871.5	1787.5	1701.2
10°	2445.0	2428.2	2397.0	2339.4	2243.4	2159.4	2161.8	2073.1	1984.3	1888.3	1770.7
12.5°	2550.5	2557.7	2512.2	2454.6	2370.6	2265.0	2262.6	2202.6	2101.9	2001.1	1861.9
15°	2656.1	2682.5	2612.9	2545.7	2437.8	2361.0	2375.4	2303.4	2205.0	2089.9	1936.3
17.5°	2672.9	2680.1	2665.7	2567.3	2488.2	2423.4	2425.8	2377.8	2303.4	2178.6	2046.7
20°	2644.1	2639.3	2622.5	2550.5	2497.8	2459.4	2461.8	2449.8	2409.0	2308.2	2128.3
22.5°	2560.1	2560.1	2538.6	2490.6	2466.6	2502.6	2473.8	2519.4	2476.2	2416.2	2267.4
25°	2493.0	2519.4	2507.4	2476.2	2485.8	2533.8	2548.1	2591.3	2584.1	2509.8	2363.4
27.5°	2564.9	2533.8	2540.9	2505.0	2540.9	2612.9	2620.1	2651.3	2648.9	2588.9	2449.8
30°	2612.9	2641.7	2586.5	2507.4	2545.7	2668.1	2663.3	2704.1	2723.3	2651.3	2531.4
32.5°	2766.5	2742.5	2696.9	2591.3	2596.1	2665.7	2687.3	2740.1	2752.1	2708.9	2610.5
35°	3080.8	3044.8	2845.7	2687.3	2663.3	2696.9	2711.3	2814.5	2836.1	2788.1	2694.5
37.5°	3565.5	3483.9	3244.0	2893.7	2785.7	2778.5	2778.5	2915.3	2996.8	2886.5	2819.3
40°	4258.9	4143.7	3884.6	3275.2	2946.4	2975.2	3004.0	3078.4	3068.8	2996.8	2982.4
42.5°	5141.9	5053.1	4772.4	3915.8	3253.6	3109.6	3085.6	3186.4	3337.5	3308.8	3299.2
45°	5878.5	5883.3	5703.3	4794.0	3783.8	3419.1	3435.9	3512.7	3767.0	3745.4	3743.0
47.5°	6416.0	6348.8	6322.4	5641.0	4556.4	4007.0	3983.0	4035.8	4366.9	4503.6	4566.0
50°	6905.4	6859.8	6797.5	6463.9	5485.0	4743.6	4719.6	4724.4	5230.7	5422.6	5576.2
52.5°	7512.5	7570.1	7363.7	7159.8	6687.1	5700.9	5674.5	5581.0	6209.6	6473.5	6655.9
55°	8261.1	8153.1	7920.4	8025.9	7836.4	6735.1	6687.1	6576.7	7325.3	7435.7	7627.6
57.5°	8426.6	8345.1	8585.0	8959.3	9141.7	7949.2	7930.0	7730.8	8263.5	8162.7	8705.0
60°	8839.3	8860.9	9194.4	9938.3	10255.0	9350.4	9256.8	8906.5	9172.9	9192.0	9770.3
62.5°	9264.0	9213.6	9959.9	10674.9	11161.9	10677.3	10646.1	9950.3	10252.6	10007.8	10773.2
65°	8952.1	9028.9	10096.6	11293.9	12337.6	11975.3	11948.9	10955.6	11121.2	10816.4	11181.1
67.5°	7843.6	7687.6	9182.5	11010.8	12942.3	13335.8	13307.0	12052.1	11610.6	10811.6	10334.2
70°	5748.9	5614.6	6833.5	9324.0	12076.1	14031.6	14146.8	12815.1	11411.5	9803.9	7973.2
72.5°	2816.9	2819.3	3829.4	6322.4	9554.4	12788.7	12846.3	11749.8	9803.9	7227.0	4515.6
75°	832.6	842.2	1418.0	3100.0	6176.0	9712.7	9777.5	8918.5	6795.1	3733.4	1540.4
77.5°	304.7	304.7	470.3	1163.7	3080.8	6130.4	6125.6	5475.4	3440.7	1264.5	359.9
80°	158.4	165.6	244.7	475.1	1334.1	3193.6	3313.6	2680.1	1307.7	532.7	105.6
82.5°	64.8	72.0	134.4	244.7	640.6	1120.5	1226.1	1050.9	568.7	371.9	48.0
85°	19.2	21.6	64.8	136.8	251.9	280.7	311.9	352.7	357.5	287.9	21.6
87.5°	2.4	2.4	26.4	45.6	55.2	60.0	69.6	69.6	182.4	201.5	12.0
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°	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4
2.5°	1648.4	1636.4	1617.2	1574.0	1564.4	1533.2	1530.8	1502.0	1511.6	1492.4	1485.2
5°	1636.4	1610.0	1557.2	1523.6	1490.0	1468.4	1454.0	1442.0	1439.6	1430.0	1425.2
7.5°	1658.0	1622.0	1540.4	1487.6	1430.0	1410.8	1379.6	1377.2	1360.5	1343.7	1343.7
10°	1730.0	1665.2	1576.4	1487.6	1413.2	1350.9	1278.9	1226.1	1206.9	1163.7	1168.5
12.5°	1787.5	1730.0	1600.4	1509.2	1396.4	1254.9	1096.5	974.2	916.6	861.4	883.0
15°	1869.1	1785.1	1646.0	1514.0	1331.7	1086.9	827.8	691.0	638.2	626.2	623.8
17.5°	1957.9	1869.1	1703.6	1502.0	1199.7	839.8	609.4	530.3	539.9	554.3	551.9
20°	2056.3	1948.3	1746.8	1461.2	990.9	609.4	499.1	496.7	511.1	532.7	537.5
22.5°	2159.4	2065.9	1799.5	1338.9	739.0	489.5	479.9	479.9	489.5	515.9	511.1
25°	2274.6	2149.8	1825.9	1149.3	530.3	451.1	455.9	465.5	470.3	491.9	494.3
27.5°	2363.4	2243.4	1833.1	921.4	431.9	417.5	429.5	441.5	448.7	465.5	472.7
30°	2445.0	2361.0	1794.7	686.2	395.9	388.7	393.5	410.3	424.7	439.1	439.1
32.5°	2548.1	2428.2	1706.0	487.1	374.3	362.3	359.9	367.1	383.9	400.7	400.7
35°	2653.7	2540.9	1564.4	391.1	355.1	338.3	328.7	321.5	328.7	340.7	350.3
37.5°	2807.3	2711.3	1386.8	359.9	340.7	316.7	297.5	280.7	268.7	266.3	273.5
40°	3025.6	2903.3	1158.9	338.3	323.9	295.1	266.3	237.5	211.1	194.4	196.7
42.5°	3356.7	3186.4	911.8	326.3	311.9	271.1	230.3	189.6	156.0	139.2	139.2
45°	3829.4	3560.7	669.4	314.3	297.5	242.3	189.6	141.6	108.0	98.4	100.8
47.5°	4542.0	4011.8	479.9	295.1	278.3	211.1	148.8	100.8	79.2	74.4	76.8
50°	5473.0	4546.8	374.3	273.5	254.3	177.6	110.4	74.4	62.4	60.0	62.4
52.5°	6449.5	5086.7	328.7	254.3	218.3	141.6	81.6	60.0	52.8	50.4	52.8
55°	7284.5	5434.6	285.5	225.5	175.2	105.6	64.8	52.8	45.6	38.4	38.4
57.5°	8129.1	5609.8	225.5	187.2	129.6	79.2	55.2	45.6	38.4	31.2	28.8
60°	8815.3	5734.5	160.8	139.2	91.2	62.4	48.0	40.8	31.2	24.0	21.6
62.5°	9266.4	5377.0	117.6	105.6	67.2	52.8	40.8	33.6	24.0	16.8	16.8
65°	9043.3	4882.8	91.2	74.4	50.4	40.8	33.6	24.0	16.8	9.6	7.2
67.5°	8114.7	3978.2	74.4	55.2	38.4	31.2	26.4	19.2	9.6	2.4	2.4
70°	6053.7	2915.3	60.0	40.8	31.2	24.0	19.2	12.0	4.8	2.4	0.0
72.5°	3311.2	1595.6	48.0	33.6	24.0	19.2	14.4	9.6	4.8	0.0	0.0
75°	1094.1	424.7	36.0	24.0	14.4	12.0	9.6	7.2	2.4	0.0	0.0
77.5°	263.9	110.4	28.8	21.6	12.0	7.2	4.8	2.4	2.4	0.0	0.0
80°	81.6	45.6	21.6	14.4	9.6	7.2	2.4	0.0	0.0	0.0	0.0
82.5°	33.6	21.6	9.6	9.6	7.2	2.4	0.0	0.0	0.0	0.0	0.0
85°	16.8	12.0	7.2	4.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	4.8	2.4	2.4	0.0	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)