

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: P483756

Luminaire Tested: **IFLD-M-SA4D-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483756
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

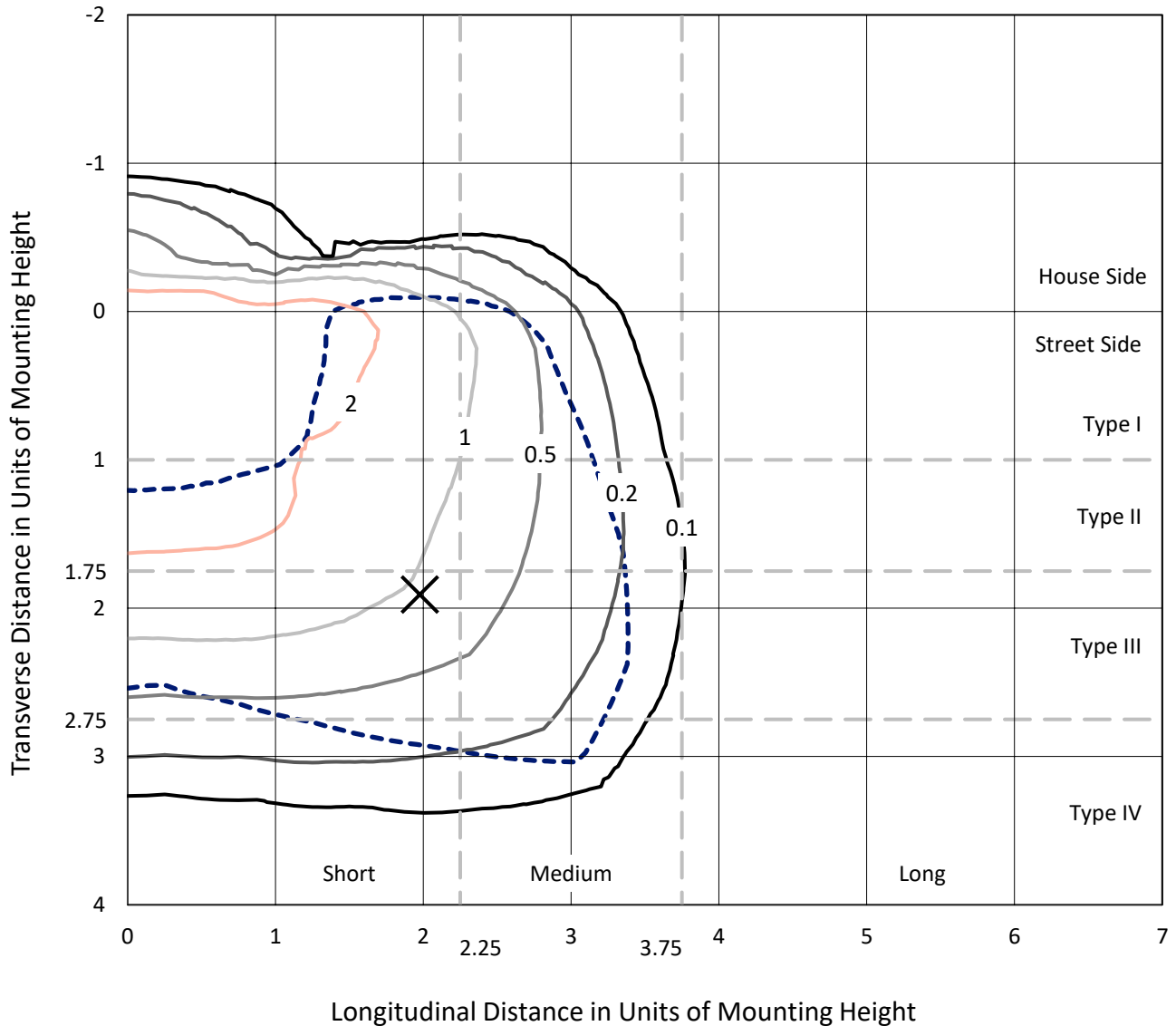
Lumens per Lamp: N/A
Luminaire Lumens: 16967.9 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 249.7
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

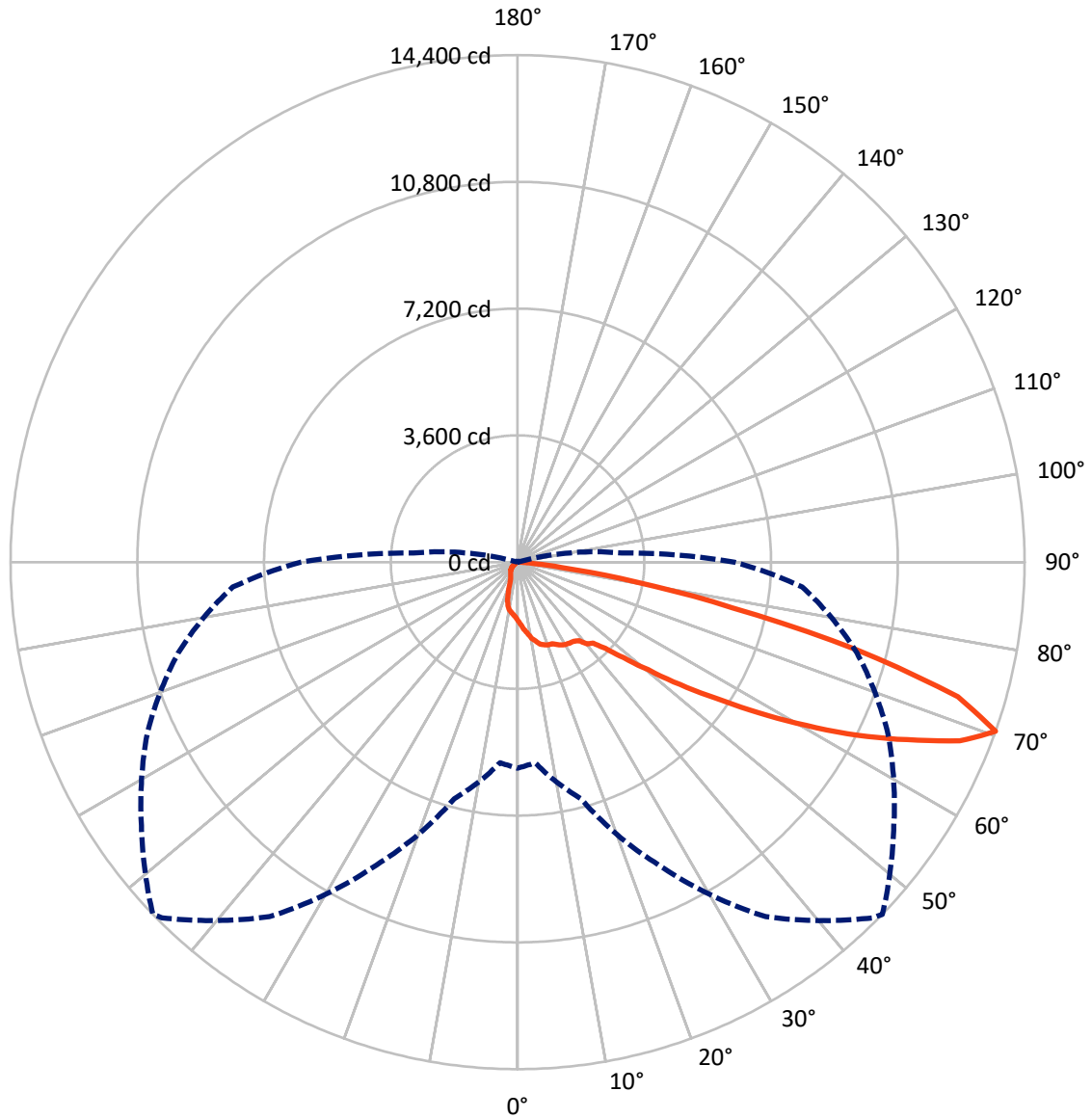
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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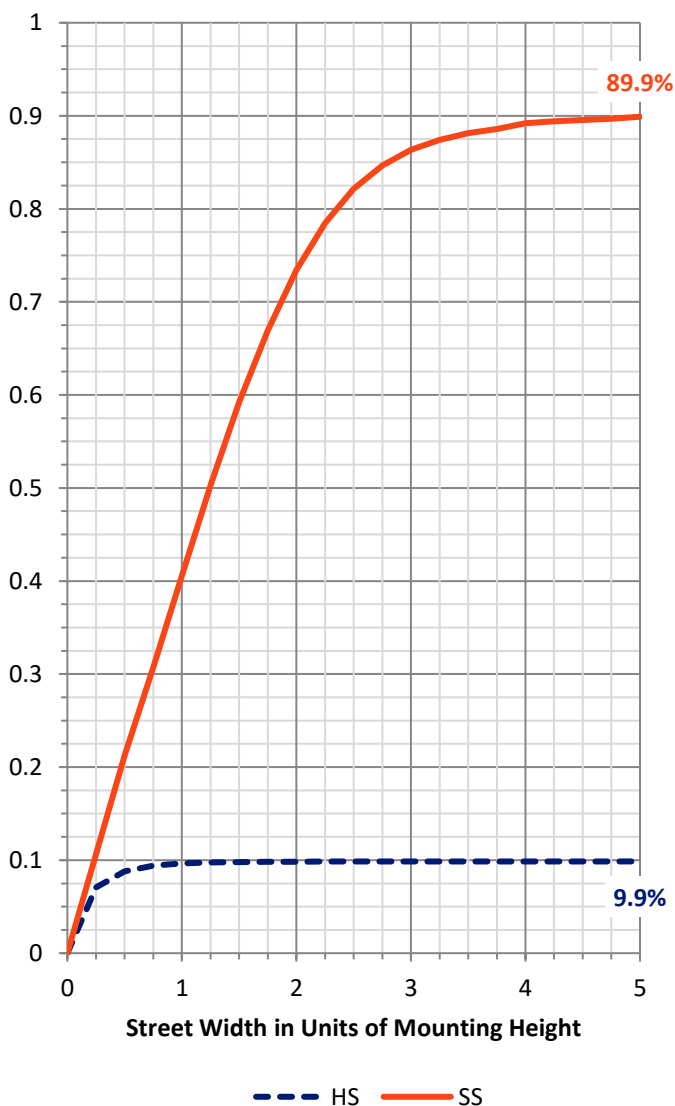
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1688.3	0.0	1688.3
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	15279.5	0.0	15279.5
	% Fixture	90.0	0.0	90.0
Total	Lumens	16967.9	0.0	16967.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	1.0
10°-20°	501.6	3.0
20°-30°	803.4	4.7
30°-40°	1146.8	6.8
40°-50°	1980.2	11.7
50°-60°	3791.2	22.3
60°-70°	5614.2	33.1
70°-80°	2780.7	16.4
80°-90°	183.7	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°	16967.9	100.0
0°-180°	16967.9	100.0

Coefficient of Utilization



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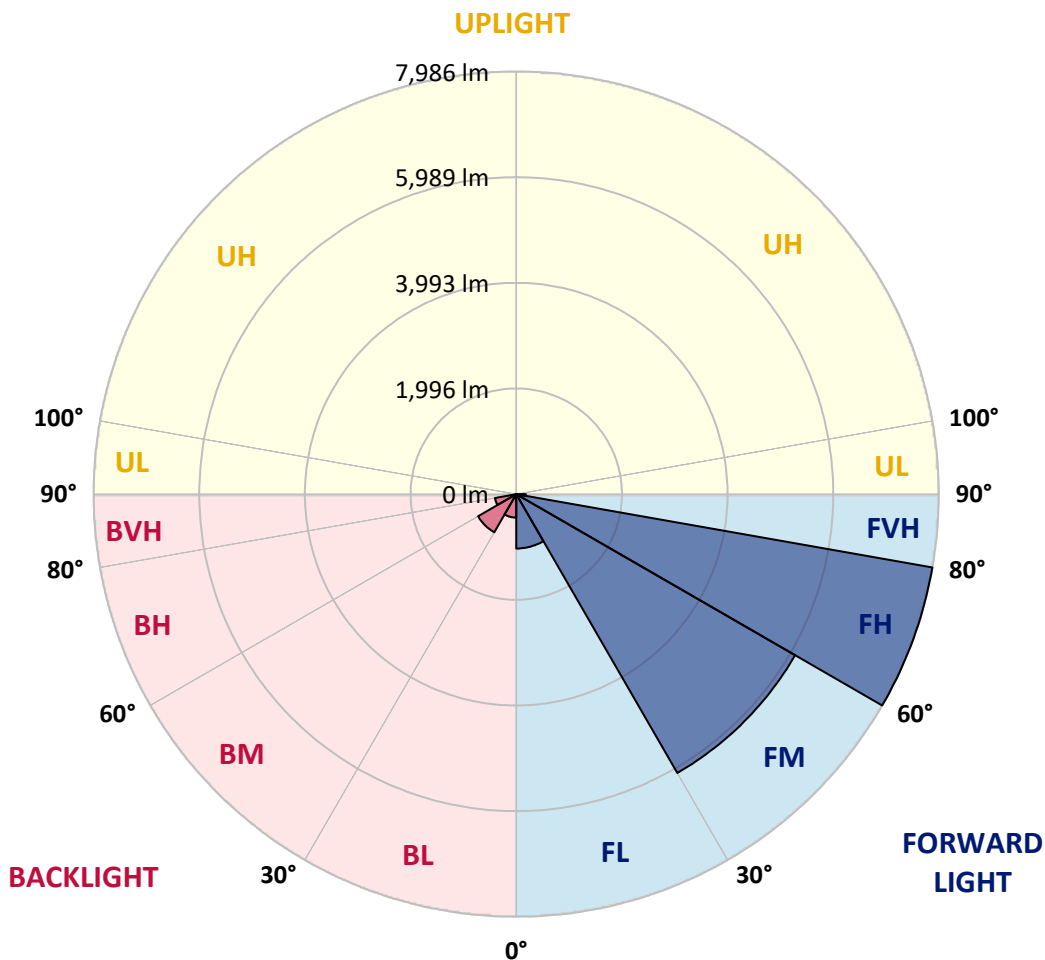
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1027.5	6.1			
FM (30°-60°)	6084.6	35.9			
FH (60°-80°)	7986.0	47.1			G4/12000
FVH (80°-90°)	181.4	1.1			G2/225
BL (0°-30°)	443.6	2.6	B1/500		
BM (30°-60°)	833.5	4.9	B1/1000		
BH (60°-80°)	408.9	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°	1665.7	1665.7	1665.7	1665.7	1665.7	1665.7	1665.7	1665.7	1665.7	1665.7	1665.7
2.5°	1858.7	1846.5	1826.9	1819.6	1800.0	1790.3	1775.6	1768.3	1741.4	1714.6	1697.5
5°	2085.8	2056.5	2066.3	2037.0	1973.5	1922.2	1919.7	1863.6	1802.5	1753.6	1687.7
7.5°	2315.4	2291.0	2254.3	2212.8	2142.0	2066.3	2044.3	1990.6	1905.1	1819.6	1731.7
10°	2488.8	2471.7	2440.0	2381.3	2283.6	2198.2	2200.6	2110.2	2019.9	1922.2	1802.5
12.5°	2596.3	2603.6	2557.2	2498.6	2413.1	2305.6	2303.2	2242.1	2139.5	2037.0	1895.3
15°	2703.7	2730.6	2659.8	2591.4	2481.5	2403.3	2418.0	2344.7	2244.6	2127.3	1971.0
17.5°	2720.8	2728.2	2713.5	2613.4	2532.8	2466.8	2469.3	2420.4	2344.7	2217.7	2083.4
20°	2691.5	2686.6	2669.5	2596.3	2542.5	2503.5	2505.9	2493.7	2452.2	2349.6	2166.4
22.5°	2606.0	2606.0	2584.1	2535.2	2510.8	2547.4	2518.1	2564.5	2520.6	2459.5	2308.1
25°	2537.7	2564.5	2552.3	2520.6	2530.3	2579.2	2593.8	2637.8	2630.5	2554.8	2405.8
27.5°	2610.9	2579.2	2586.5	2549.9	2586.5	2659.8	2667.1	2698.9	2696.4	2635.3	2493.7
30°	2659.8	2689.1	2632.9	2552.3	2591.4	2715.9	2711.1	2752.6	2772.1	2698.9	2576.7
32.5°	2816.1	2791.7	2745.3	2637.8	2642.7	2713.5	2735.5	2789.2	2801.4	2757.5	2657.3
35°	3136.0	3099.4	2896.7	2735.5	2711.1	2745.3	2759.9	2864.9	2886.9	2838.1	2742.8
37.5°	3629.4	3546.4	3302.1	2945.5	2835.6	2828.3	2828.3	2967.5	3050.6	2938.2	2869.8
40°	4335.3	4218.0	3954.2	3333.9	2999.3	3028.6	3057.9	3133.6	3123.8	3050.6	3035.9
42.5°	5234.1	5143.7	4857.9	3986.0	3311.9	3165.3	3140.9	3243.5	3397.4	3368.1	3358.3
45°	5983.9	5988.8	5805.6	4879.9	3851.7	3480.4	3497.5	3575.7	3834.6	3812.6	3810.1
47.5°	6531.0	6462.6	6435.7	5742.1	4638.1	4078.8	4054.4	4108.1	4445.2	4584.4	4647.9
50°	7029.2	6982.8	6919.3	6579.8	5583.3	4828.6	4804.2	4809.1	5324.4	5519.8	5676.1
52.5°	7647.2	7705.8	7495.7	7288.1	6807.0	5803.1	5776.3	5681.0	6320.9	6589.6	6775.2
55°	8409.2	8299.3	8062.4	8169.8	7976.9	6855.8	6807.0	6694.6	7456.6	7569.0	7764.4
57.5°	8577.7	8494.7	8738.9	9119.9	9305.5	8091.7	8072.1	7869.4	8411.6	8309.0	8861.0
60°	8997.8	9019.8	9359.3	10116.4	10438.8	9518.0	9422.8	9066.2	9337.3	9356.8	9945.5
62.5°	9430.1	9378.8	10138.4	10866.2	11362.0	10868.7	10836.9	10128.6	10436.4	10187.2	10966.4
65°	9112.6	9190.7	10277.6	11496.4	12558.8	12190.0	12163.2	11152.0	11320.5	11010.3	11381.6
67.5°	7984.2	7825.4	9347.1	11208.2	13174.3	13574.9	13545.5	12268.2	11818.8	11005.5	10519.4
70°	5852.0	5715.2	6956.0	9491.2	12292.6	14283.2	14400.4	13044.9	11616.1	9979.6	8116.1
72.5°	2867.4	2869.8	3898.1	6435.7	9725.6	13018.0	13076.6	11960.4	9979.6	7356.5	4596.6
75°	847.5	857.3	1443.5	3155.6	6286.7	9886.8	9952.8	9078.4	6916.9	3800.4	1568.0
77.5°	310.2	310.2	478.7	1184.6	3136.0	6240.3	6235.4	5573.6	3502.4	1287.1	366.4
80°	161.2	168.5	249.1	483.6	1358.0	3250.8	3373.0	2728.2	1331.1	542.2	107.5
82.5°	65.9	73.3	136.8	249.1	652.1	1140.6	1248.1	1069.8	578.8	378.6	48.8
85°	19.5	22.0	65.9	139.2	256.5	285.8	317.5	359.0	363.9	293.1	22.0
87.5°	2.4	2.4	26.9	46.4	56.2	61.1	70.8	70.8	185.6	205.2	12.2
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°	1665.7	1665.7	1665.7	1665.7	1665.7	1665.7	1665.7	1665.7	1665.7	1665.7	1665.7
2.5°	1677.9	1665.7	1646.2	1602.2	1592.4	1560.7	1558.3	1528.9	1538.7	1519.2	1511.8
5°	1665.7	1638.9	1585.1	1550.9	1516.7	1494.7	1480.1	1467.9	1465.4	1455.7	1450.8
7.5°	1687.7	1651.1	1568.0	1514.3	1455.7	1436.1	1404.4	1401.9	1384.8	1367.7	1367.7
10°	1761.0	1695.0	1604.7	1514.3	1438.6	1375.1	1301.8	1248.1	1228.5	1184.6	1189.4
12.5°	1819.6	1761.0	1629.1	1536.3	1421.5	1277.4	1116.2	991.6	933.0	876.8	898.8
15°	1902.6	1817.1	1675.5	1541.2	1355.5	1106.4	842.6	703.4	649.7	637.5	635.0
17.5°	1993.0	1902.6	1734.1	1528.9	1221.2	854.8	620.4	539.8	549.5	564.2	561.8
20°	2093.1	1983.2	1778.1	1487.4	1008.7	620.4	508.0	505.6	520.2	542.2	547.1
22.5°	2198.2	2102.9	1831.8	1362.9	752.3	498.2	488.5	488.5	498.2	525.1	520.2
25°	2315.4	2188.4	1858.7	1169.9	539.8	459.2	464.1	473.8	478.7	500.7	503.1
27.5°	2405.8	2283.6	1866.0	937.9	439.6	425.0	437.2	449.4	456.7	473.8	481.2
30°	2488.8	2403.3	1826.9	698.5	403.0	395.7	400.6	417.7	432.3	447.0	447.0
32.5°	2593.8	2471.7	1736.5	495.8	381.0	368.8	366.4	373.7	390.8	407.9	407.9
35°	2701.3	2586.5	1592.4	398.1	361.5	344.4	334.6	327.3	334.6	346.8	356.6
37.5°	2857.6	2759.9	1411.7	366.4	346.8	322.4	302.9	285.8	273.5	271.1	278.4
40°	3079.9	2955.3	1179.7	344.4	329.7	300.4	271.1	241.8	214.9	197.8	200.3
42.5°	3416.9	3243.5	928.1	332.2	317.5	276.0	234.5	192.9	158.8	141.7	141.7
45°	3898.1	3624.5	681.4	320.0	302.9	246.7	192.9	144.1	109.9	100.1	102.6
47.5°	4623.5	4083.7	488.5	300.4	283.3	214.9	151.4	102.6	80.6	75.7	78.2
50°	5571.1	4628.3	381.0	278.4	258.9	180.7	112.4	75.7	63.5	61.1	63.5
52.5°	6565.2	5177.9	334.6	258.9	222.3	144.1	83.0	61.1	53.7	51.3	53.7
55°	7415.1	5532.0	290.6	229.6	178.3	107.5	65.9	53.7	46.4	39.1	39.1
57.5°	8274.8	5710.3	229.6	190.5	131.9	80.6	56.2	46.4	39.1	31.8	29.3
60°	8973.4	5837.3	163.6	141.7	92.8	63.5	48.8	41.5	31.8	24.4	22.0
62.5°	9432.5	5473.4	119.7	107.5	68.4	53.7	41.5	34.2	24.4	17.1	17.1
65°	9205.4	4970.3	92.8	75.7	51.3	41.5	34.2	24.4	17.1	9.8	7.3
67.5°	8260.2	4049.5	75.7	56.2	39.1	31.8	26.9	19.5	9.8	2.4	2.4
70°	6162.2	2967.5	61.1	41.5	31.8	24.4	19.5	12.2	4.9	2.4	0.0
72.5°	3370.5	1624.2	48.8	34.2	24.4	19.5	14.7	9.8	4.9	0.0	0.0
75°	1113.7	432.3	36.6	24.4	14.7	12.2	9.8	7.3	2.4	0.0	0.0
77.5°	268.7	112.4	29.3	22.0	12.2	7.3	4.9	2.4	2.4	0.0	0.0
80°	83.0	46.4	22.0	14.7	9.8	7.3	2.4	0.0	0.0	0.0	0.0
82.5°	34.2	22.0	9.8	9.8	7.3	2.4	0.0	0.0	0.0	0.0	0.0
85°	17.1	12.2	7.3	4.9	4.9	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	4.9	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)