

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: P650441

Luminaire Tested: **GLAN-SA5B-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16140.8 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

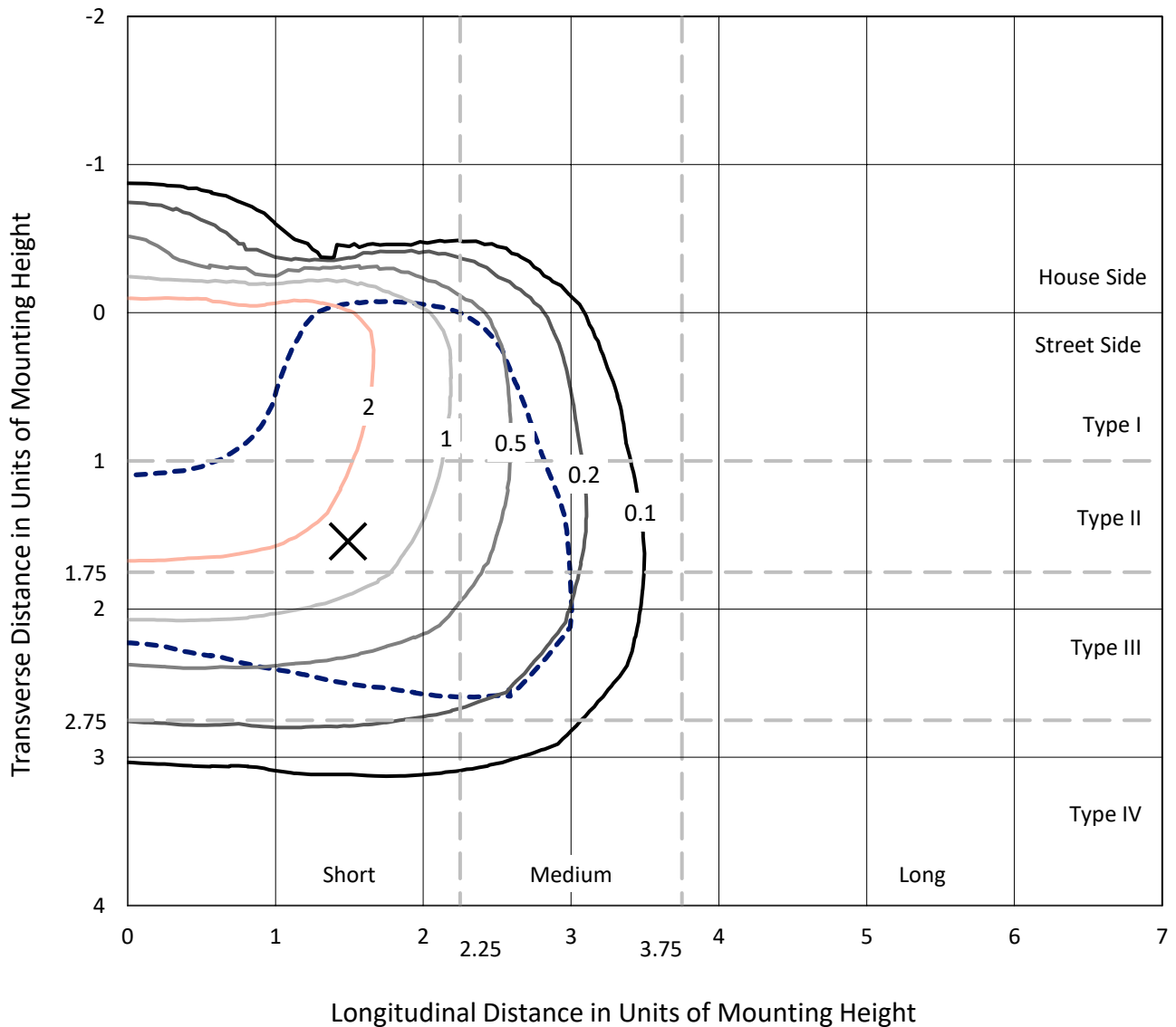
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

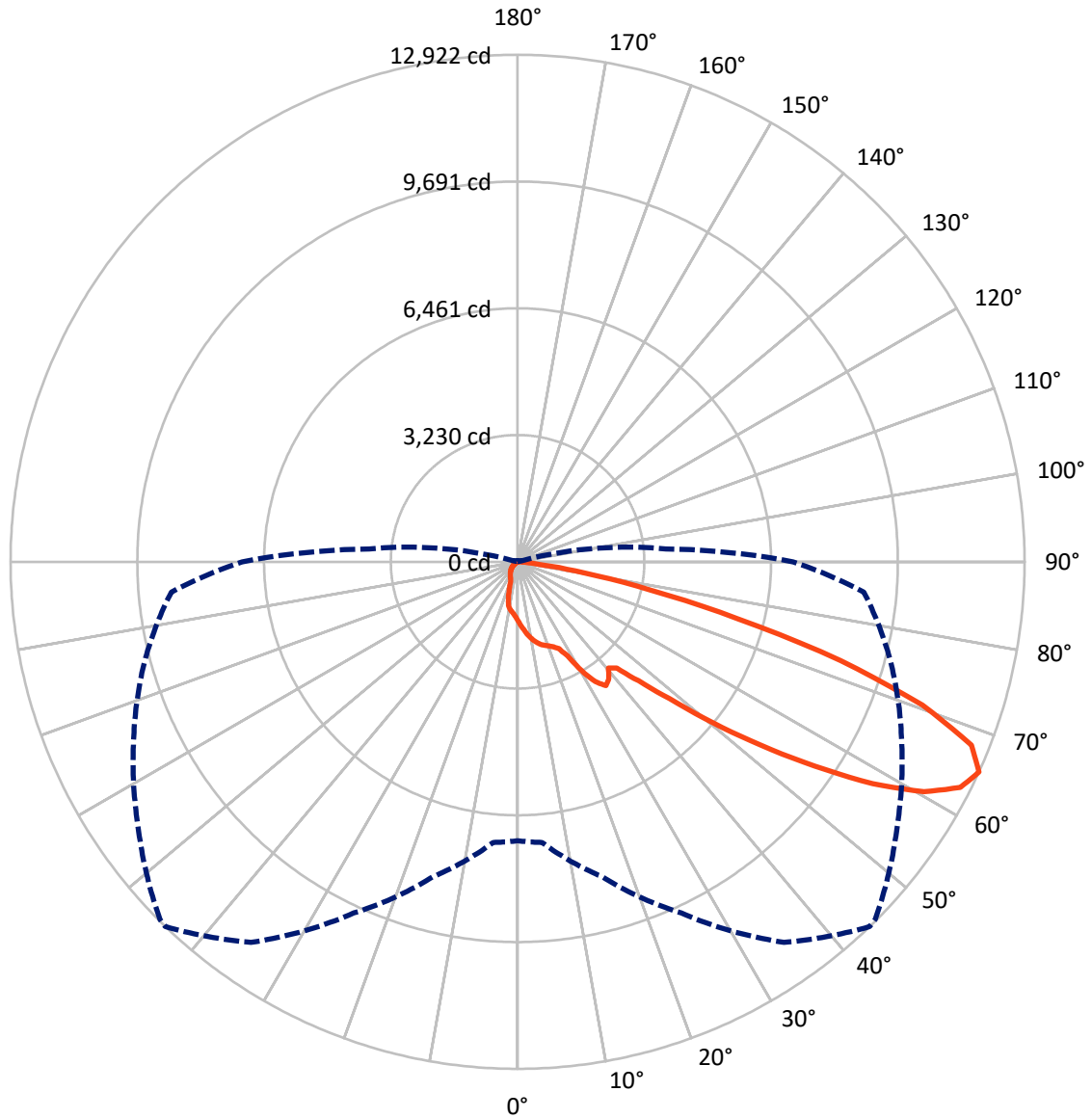
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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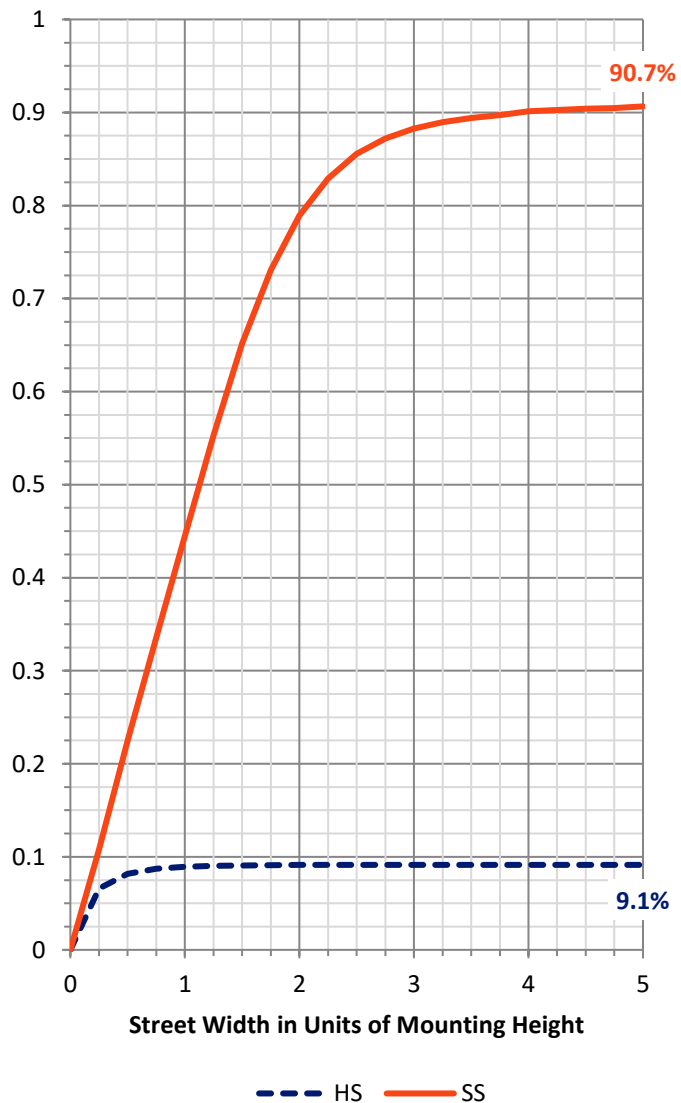
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1487.1	0.0	1487.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	14653.6	0.0	14653.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	16140.8	0.0	16140.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	0.9
10°-20°	449.7	2.8
20°-30°	762.5	4.7
30°-40°	1267.8	7.9
40°-50°	2213.6	13.7
50°-60°	4324.5	26.8
60°-70°	5017.5	31.1
70°-80°	1827.1	11.3
80°-90°	128.7	0.8
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°	16140.8	100.0
0°-180°	16140.8	100.0

Coefficient of Utilization



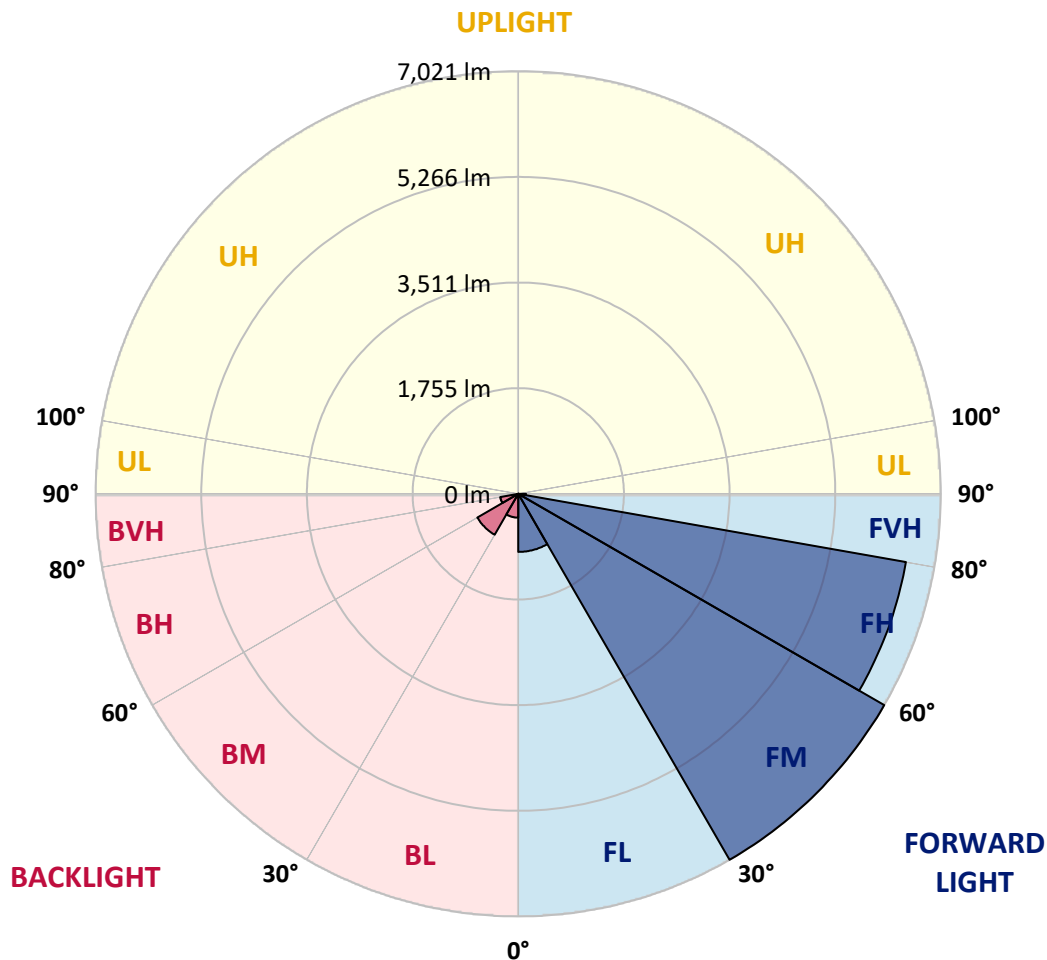
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	965.4	6.0			
FM (30°-60°)	7021.3	43.5			
FH (60°-80°)	6540.0	40.5			G3/7500
FVH (80°-90°)	127.0	0.8			G2/225
BL (0°-30°)	396.2	2.5	B1/500		
BM (30°-60°)	784.6	4.9	B1/1000		
BH (60°-80°)	304.5	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2
2.5°	1690.9	1683.5	1679.8	1660.1	1645.3	1626.8	1626.8	1603.3	1576.3	1546.7	1519.5
5°	1879.6	1867.3	1851.2	1834.0	1799.5	1750.2	1750.2	1700.8	1644.1	1593.5	1538.0
7.5°	2060.9	2049.8	2022.7	1989.4	1932.7	1880.8	1877.2	1805.6	1737.8	1661.3	1582.4
10°	2220.0	2211.4	2187.9	2123.8	2064.6	1996.8	1995.6	1915.4	1836.4	1742.7	1645.3
12.5°	2331.1	2332.2	2301.5	2239.8	2163.3	2099.1	2094.2	2015.3	1932.7	1831.5	1711.9
15°	2410.0	2410.0	2377.9	2308.8	2239.8	2183.0	2178.1	2109.0	2023.9	1914.2	1784.7
17.5°	2432.2	2439.6	2405.1	2343.4	2287.8	2238.5	2237.3	2179.3	2111.5	2005.4	1858.7
20°	2423.5	2430.9	2403.8	2355.7	2317.4	2289.1	2285.4	2261.9	2199.1	2099.1	1937.6
22.5°	2405.1	2412.4	2392.7	2364.3	2345.9	2354.5	2348.3	2368.0	2334.7	2213.9	2031.3
25°	2408.7	2416.1	2401.3	2385.3	2401.3	2454.4	2470.4	2555.5	2525.9	2359.4	2132.5
27.5°	2524.7	2539.5	2518.5	2525.9	2582.6	2706.0	2736.8	2883.6	2752.9	2544.4	2290.4
30°	2782.5	2772.6	2733.1	2768.8	2966.2	3227.7	3219.1	3195.6	2990.9	2757.8	2477.8
32.5°	3016.7	3008.1	3005.7	3159.9	3517.5	3644.6	3638.4	3411.5	3204.3	3001.9	2662.8
35°	3111.7	3078.4	3071.1	3444.7	4042.9	3875.2	3836.9	3500.2	3463.3	3268.4	2851.5
37.5°	3397.9	3374.4	3259.8	3491.6	3833.3	3777.7	3748.1	3653.2	3739.5	3503.9	3064.9
40°	3987.4	3922.0	3818.5	3591.5	3536.0	3559.4	3589.0	3849.3	4066.4	3825.9	3349.8
42.5°	4720.0	4705.2	4512.8	4089.8	3674.1	3706.3	3744.5	4258.7	4536.2	4310.6	3814.8
45°	5599.4	5620.4	5342.9	4843.4	4298.2	4325.4	4380.9	4863.1	5172.7	5064.1	4546.2
47.5°	6398.6	6382.6	6288.9	5769.6	5266.4	5206.0	5296.1	5638.9	6053.3	6070.6	5453.9
50°	7202.8	7287.9	7148.5	6945.0	6571.3	6444.2	6411.0	6578.7	7210.2	7127.6	6544.2
52.5°	8358.4	8402.8	8141.4	8089.6	8174.7	7762.7	7729.4	7770.1	8335.0	8051.4	7360.7
55°	9084.9	9059.0	8961.5	9366.1	9702.8	9188.5	9146.5	8982.5	9268.7	8703.7	8146.3
57.5°	9314.3	9351.3	9578.2	10309.6	11106.3	10669.7	10593.3	10127.1	9942.1	9311.8	8869.0
60°	9211.9	9279.7	9769.4	10857.2	11962.3	11896.9	11831.5	11048.4	10425.6	9819.9	9376.0
62.5°	8483.0	8578.0	9361.2	10759.8	12252.1	12660.3	12579.0	11623.1	10747.5	10066.6	9464.7
65°	7109.0	7179.3	8304.2	9875.4	11840.2	12921.8	12892.3	11803.2	10798.0	9840.9	8856.7
67.5°	5067.8	5307.1	6349.3	8322.7	10621.6	12475.4	12526.0	11587.4	10323.2	8865.4	7334.8
70°	3185.7	3348.6	4096.0	5958.3	8515.0	10944.8	11111.2	10599.5	8959.1	6910.4	4910.0
72.5°	1519.5	1640.4	2173.1	3771.6	6010.2	8611.3	8743.2	8701.3	6927.7	4353.7	2533.3
75°	677.1	722.7	1037.2	1925.2	3880.2	5788.1	6129.8	6186.5	4329.1	2130.0	985.5
77.5°	345.3	346.6	485.9	932.4	1937.6	3453.4	3521.2	3719.8	2347.0	938.6	342.9
80°	183.8	196.1	257.8	440.3	1005.2	1700.8	1692.1	1859.9	1040.9	460.0	114.7
82.5°	82.6	91.3	145.6	230.7	490.9	645.0	695.6	761.0	446.5	293.5	50.6
85°	24.7	29.6	71.6	116.0	177.6	186.2	208.4	268.9	252.8	208.4	25.9
87.5°	3.7	3.7	29.6	32.1	25.9	33.3	34.5	38.2	81.4	76.5	13.5
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°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2
2.5°	1504.7	1496.1	1465.2	1439.3	1417.2	1403.5	1387.6	1377.7	1372.8	1369.0	1370.2
5°	1510.9	1489.9	1436.9	1394.9	1362.9	1328.4	1304.9	1291.3	1285.1	1275.3	1275.3
7.5°	1545.4	1512.1	1438.1	1373.9	1318.4	1271.6	1227.2	1211.1	1200.0	1197.6	1195.1
10°	1594.7	1552.8	1451.7	1362.9	1283.9	1219.8	1156.9	1101.4	1058.2	1032.3	1028.6
12.5°	1656.4	1596.0	1472.6	1355.5	1254.3	1140.8	974.4	862.1	786.9	763.4	767.2
15°	1713.1	1647.7	1493.6	1349.3	1200.0	946.0	757.3	629.0	590.8	587.1	588.3
17.5°	1780.9	1703.3	1518.2	1340.7	1050.8	722.7	562.4	527.9	535.3	547.6	546.4
20°	1851.2	1762.5	1547.8	1288.8	838.7	543.9	497.0	500.7	511.8	523.0	525.4
22.5°	1926.5	1830.3	1582.4	1164.3	640.1	473.6	471.1	476.1	487.2	499.5	502.0
25°	2030.1	1915.4	1608.3	1001.5	484.7	437.9	442.8	451.4	461.3	474.8	477.3
27.5°	2163.3	2030.1	1621.8	789.3	419.4	405.8	407.0	419.4	431.7	444.0	444.0
30°	2336.0	2167.0	1594.7	597.0	387.3	374.9	370.0	377.4	393.5	405.8	407.0
32.5°	2490.2	2296.5	1523.2	456.3	363.9	346.6	334.3	335.4	341.6	349.1	350.2
35°	2644.3	2422.3	1401.1	383.6	339.2	319.5	300.9	291.0	286.1	282.4	286.1
37.5°	2841.7	2579.0	1238.3	349.1	318.2	293.5	267.6	246.6	229.4	218.3	220.8
40°	3095.7	2796.0	1045.9	326.8	298.5	268.9	234.4	207.2	177.6	167.7	162.8
42.5°	3515.0	3125.3	843.6	308.3	278.7	243.0	199.8	162.8	135.7	125.8	128.3
45°	4177.4	3541.0	650.0	288.6	259.0	214.6	167.7	128.3	106.1	101.2	103.6
47.5°	5055.5	4078.7	500.7	266.4	234.4	183.8	131.9	101.2	87.5	86.4	85.1
50°	5881.9	4579.5	418.1	241.7	204.8	152.9	108.5	85.1	76.5	75.2	75.2
52.5°	6629.3	4938.4	340.4	213.4	172.7	125.8	91.3	75.2	67.8	64.1	64.1
55°	7294.0	5172.7	276.2	178.8	135.7	99.9	78.9	67.8	59.2	54.3	53.0
57.5°	7796.0	5201.1	207.2	143.1	101.2	77.7	67.8	59.2	49.3	43.1	40.7
60°	8010.6	4955.6	152.9	108.5	75.2	61.7	54.3	48.1	37.0	30.9	29.6
62.5°	7794.8	4478.3	113.5	82.6	57.9	45.6	38.2	35.8	25.9	18.5	17.3
65°	7021.5	3788.9	90.0	62.9	43.1	33.3	24.7	23.4	16.1	8.6	7.4
67.5°	5625.3	2967.4	71.6	46.9	30.9	22.2	16.1	14.8	8.6	2.5	2.5
70°	3658.1	1896.9	57.9	34.5	19.7	14.8	9.9	7.4	4.9	1.3	0.0
72.5°	1809.4	886.7	46.9	27.2	13.5	7.4	3.7	2.5	3.7	0.0	0.0
75°	701.8	315.7	34.5	18.5	7.4	3.7	2.5	0.0	1.3	0.0	0.0
77.5°	233.1	104.8	21.0	9.9	4.9	2.5	0.0	0.0	0.0	0.0	0.0
80°	86.4	40.7	11.1	6.2	2.5	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	34.5	16.1	7.4	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.3	9.9	4.9	3.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.4	7.4	4.9	3.7	2.5	1.3	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)