

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: McGRAW-EDISON

Report Number: P454857

Luminaire Tested: **GALN-SA6A-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454857
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: MCGRAW-EDISON
Catalog Number: GALN-SA6A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA 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: 16406 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

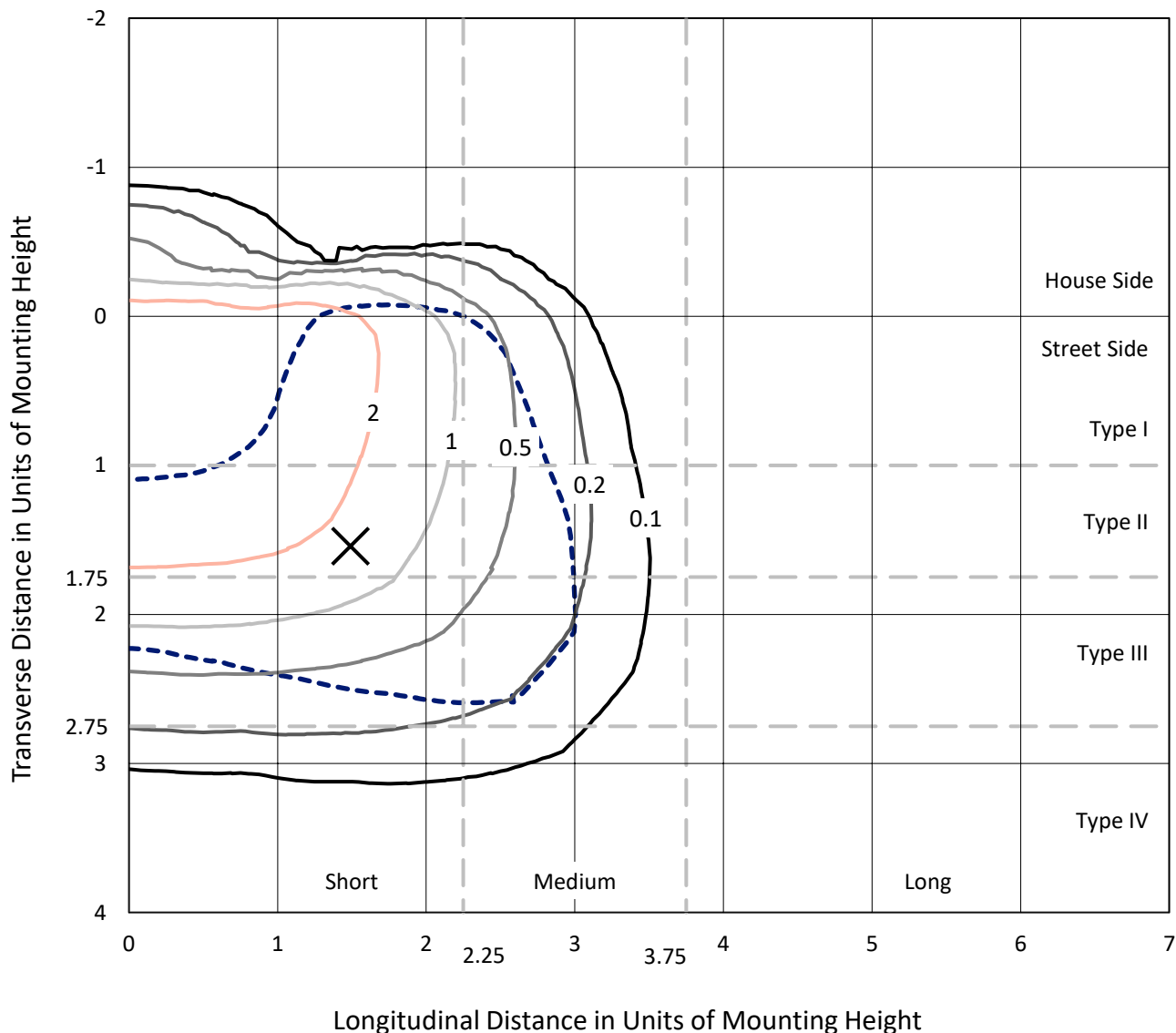
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

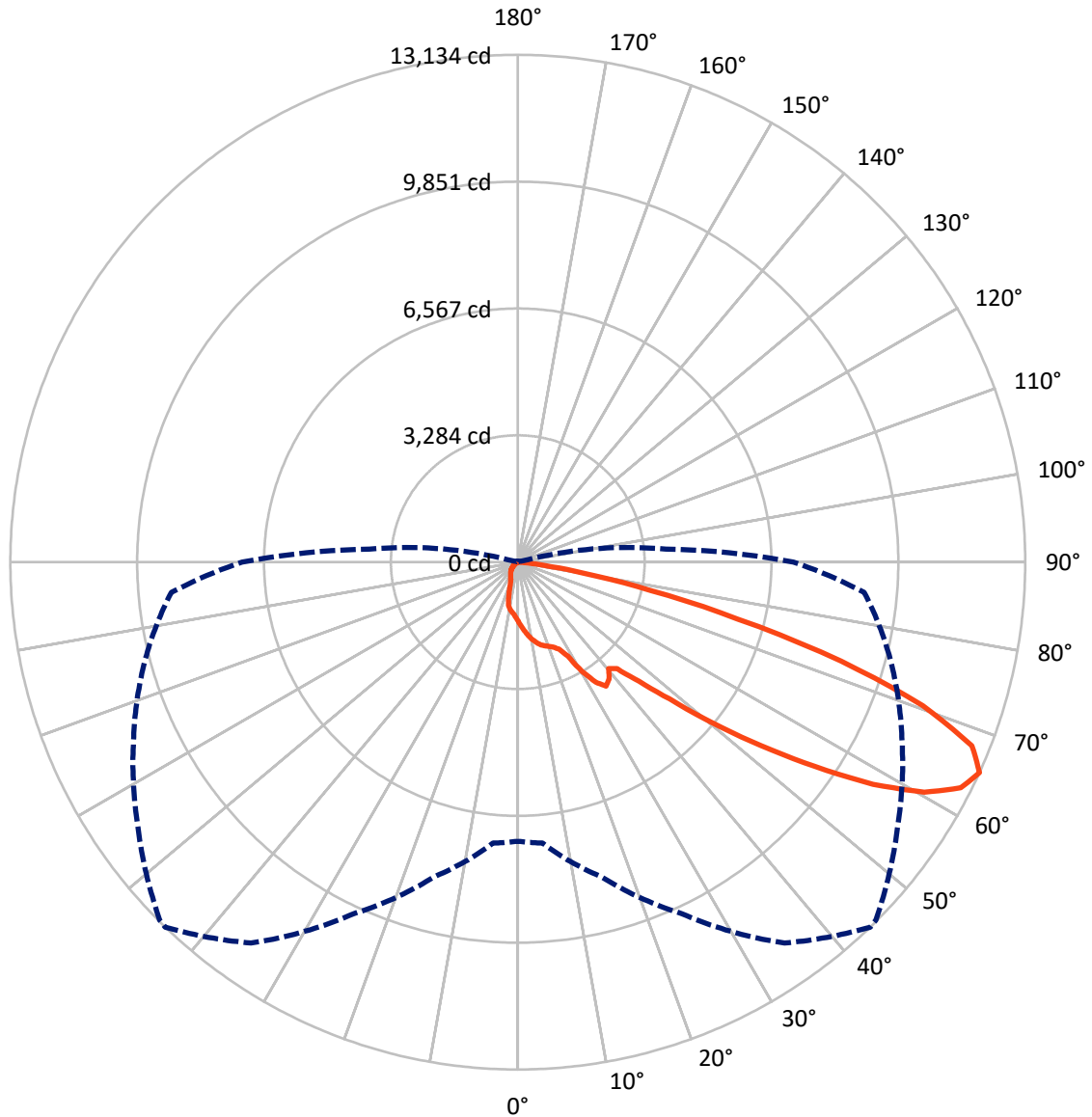
✕ Max cd
 - - - 1/2 Max cd



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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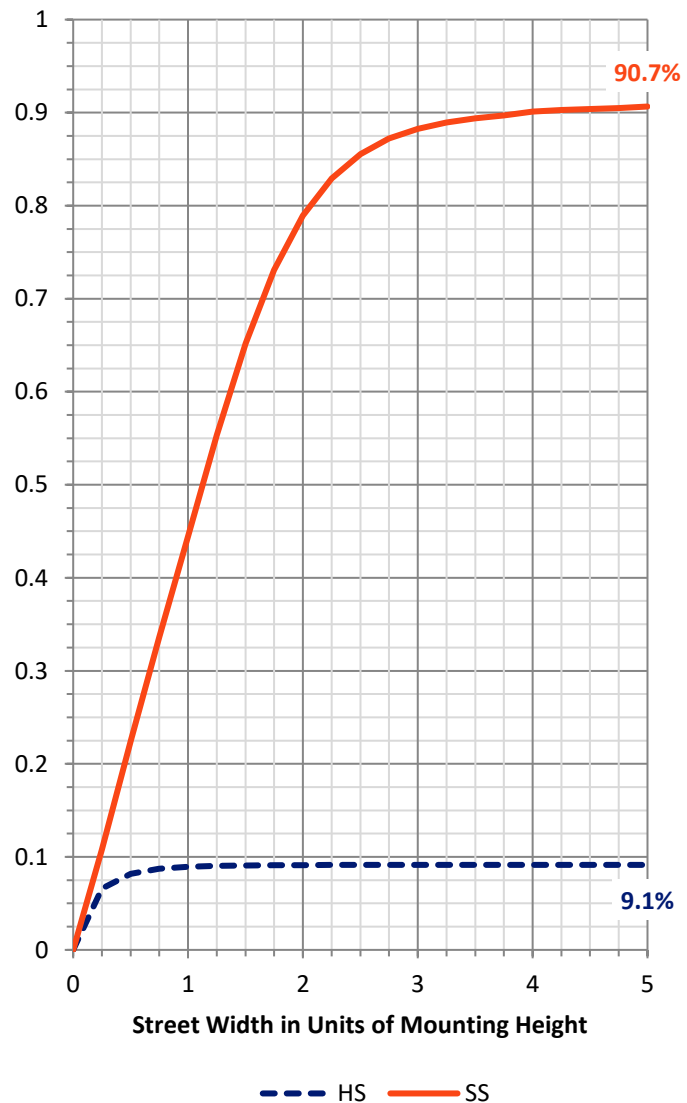
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1511.6	0.0	1511.6
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	14894.4	0.0	14894.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	16406.0	0.0	16406.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	0.9
10°-20°	457.1	2.8
20°-30°	775.0	4.7
30°-40°	1288.6	7.9
40°-50°	2249.9	13.7
50°-60°	4395.6	26.8
60°-70°	5099.9	31.1
70°-80°	1857.1	11.3
80°-90°	130.9	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°	16406.0	100.0
0°-180°	16406.0	100.0

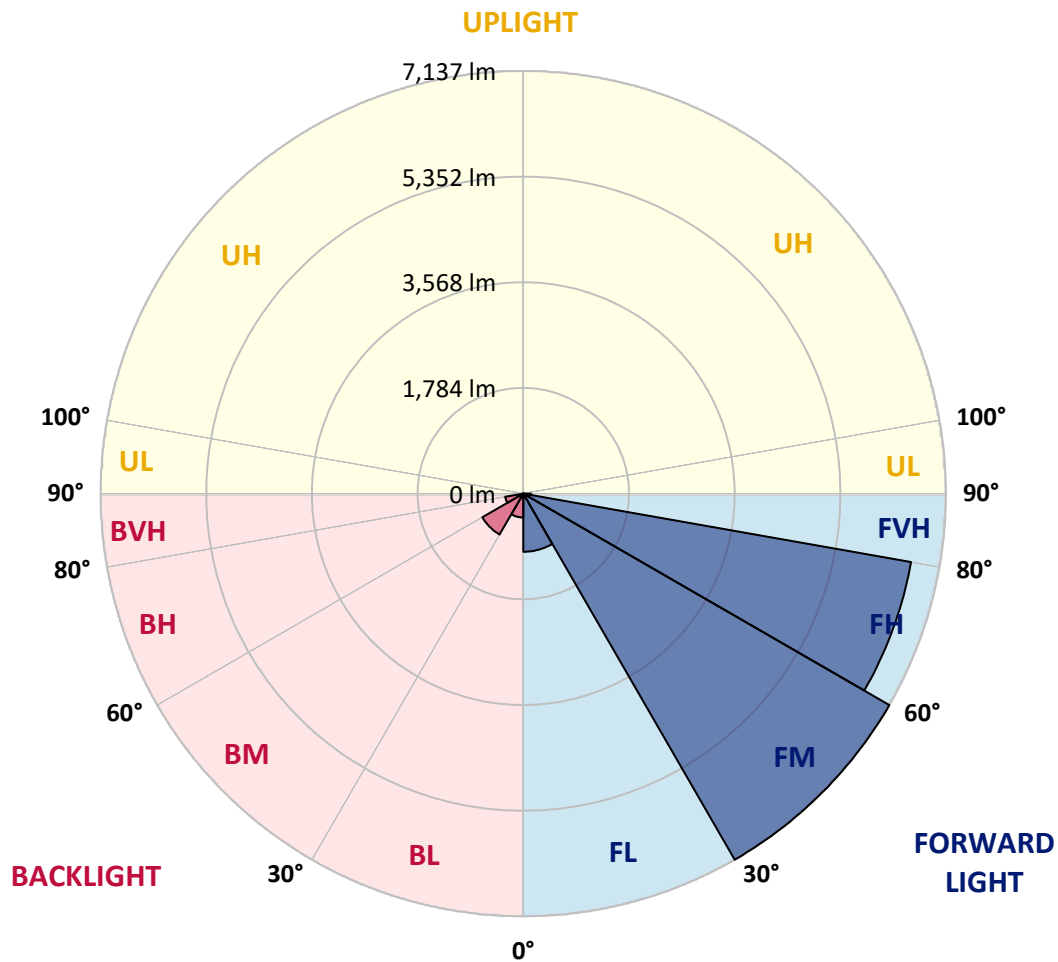


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.2	6.0			
FM (30°-60°)	7136.6	43.5			
FH (60°-80°)	6647.5	40.5			G3/7500
FVH (80°-90°)	129.1	0.8			G2/225
BL (0°-30°)	402.7	2.5	B1/500		
BM (30°-60°)	797.5	4.9	B1/1000		
BH (60°-80°)	309.5	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°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1718.7	1711.2	1707.4	1687.4	1672.3	1653.5	1653.5	1629.7	1602.1	1572.0	1544.5
5°	1910.5	1898.0	1881.7	1864.1	1829.0	1778.9	1778.9	1728.7	1671.1	1619.7	1563.3
7.5°	2094.8	2083.5	2055.9	2022.1	1964.4	1911.8	1908.0	1835.3	1766.4	1688.6	1608.4
10°	2256.5	2247.7	2223.9	2158.7	2098.6	2029.6	2028.4	1946.9	1866.6	1771.4	1672.3
12.5°	2369.3	2370.6	2339.3	2276.6	2198.8	2133.7	2128.6	2048.4	1964.4	1861.6	1740.0
15°	2449.6	2449.6	2417.0	2346.8	2276.6	2218.9	2213.9	2143.7	2057.2	1945.6	1814.0
17.5°	2472.1	2479.7	2444.6	2381.9	2325.5	2275.3	2274.1	2215.1	2146.2	2038.4	1889.2
20°	2463.4	2470.9	2443.3	2394.4	2355.6	2326.7	2323.0	2299.1	2235.2	2133.7	1969.4
22.5°	2444.6	2452.1	2432.0	2403.2	2384.4	2393.2	2386.9	2407.0	2373.1	2250.2	2064.7
25°	2448.3	2455.8	2440.8	2424.5	2440.8	2494.7	2511.0	2597.5	2567.4	2398.2	2167.5
27.5°	2566.2	2581.2	2559.9	2567.4	2625.1	2750.4	2781.8	2931.0	2798.1	2586.2	2328.0
30°	2828.2	2818.1	2778.0	2814.4	3015.0	3280.7	3271.9	3248.1	3040.0	2803.1	2518.5
32.5°	3066.4	3057.6	3055.1	3211.8	3575.3	3704.4	3698.2	3467.5	3256.9	3051.3	2706.6
35°	3162.9	3129.0	3121.5	3501.4	4109.4	3938.9	3900.0	3557.8	3520.2	3322.1	2898.4
37.5°	3453.7	3429.9	3313.3	3549.0	3896.3	3839.8	3809.8	3713.2	3801.0	3561.5	3115.2
40°	4053.0	3986.5	3881.2	3650.5	3594.1	3617.9	3648.0	3912.5	4133.2	3888.7	3404.8
42.5°	4797.6	4782.6	4587.0	4157.0	3734.5	3767.1	3806.0	4328.8	4610.8	4381.4	3877.4
45°	5691.4	5712.7	5430.7	4923.0	4368.9	4396.4	4452.9	4943.0	5257.7	5147.4	4620.8
47.5°	6503.8	6487.5	6392.2	5864.4	5353.0	5291.5	5383.0	5731.6	6152.8	6170.3	5543.5
50°	7321.1	7407.6	7266.0	7059.1	6679.3	6550.2	6516.3	6686.8	7328.7	7244.7	6651.7
52.5°	8495.8	8540.9	8275.1	8222.5	8309.0	7890.3	7856.4	7897.8	8472.0	8183.6	7481.6
55°	9234.2	9207.8	9108.8	9520.0	9862.2	9339.5	9296.8	9130.1	9421.0	8846.8	8280.2
57.5°	9467.3	9504.9	9735.6	10479.0	11288.8	10845.1	10767.3	10293.5	10105.4	9464.8	9014.8
60°	9363.3	9432.2	9929.9	11035.6	12158.9	12092.4	12026.0	11229.9	10596.9	9981.3	9530.0
62.5°	8622.4	8718.9	9515.0	10936.6	12453.5	12868.4	12785.7	11814.1	10924.0	10232.0	9620.3
65°	7225.9	7297.3	8440.6	10037.7	12034.8	13134.2	13104.1	11997.1	10975.4	10002.6	9002.2
67.5°	5151.1	5394.3	6453.6	8459.4	10796.2	12680.4	12731.8	11777.8	10492.8	9011.0	7455.3
70°	3238.1	3403.6	4163.3	6056.2	8655.0	11124.6	11293.9	10773.6	9106.3	7024.0	4990.7
72.5°	1544.5	1667.3	2208.9	3833.6	6108.9	8752.8	8886.9	8844.3	7041.6	4425.3	2574.9
75°	688.2	734.6	1054.3	1956.9	3943.9	5883.2	6230.5	6288.2	4400.2	2165.0	1001.6
77.5°	351.0	352.3	493.9	947.7	1969.4	3510.1	3579.1	3780.9	2385.6	954.0	348.5
80°	186.8	199.3	262.0	447.5	1021.7	1728.7	1720.0	1890.5	1058.1	467.6	116.6
82.5°	84.0	92.8	147.9	234.4	498.9	655.6	707.0	773.5	453.8	298.4	51.4
85°	25.1	30.1	72.7	117.8	180.5	189.3	211.9	273.3	257.0	211.9	26.3
87.5°	3.8	3.8	30.1	32.6	26.3	33.8	35.1	38.9	82.7	77.7	13.8
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°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1529.4	1520.6	1489.3	1463.0	1440.4	1426.6	1410.3	1400.3	1395.3	1391.5	1392.8
5°	1535.7	1514.4	1460.5	1417.8	1385.3	1350.1	1326.3	1312.5	1306.3	1296.2	1296.2
7.5°	1570.8	1536.9	1461.7	1396.5	1340.1	1292.5	1247.4	1231.1	1219.8	1217.3	1214.8
10°	1620.9	1578.3	1475.5	1385.3	1305.0	1239.8	1175.9	1119.5	1075.6	1049.3	1045.5
12.5°	1683.6	1622.2	1496.8	1377.7	1274.9	1159.6	990.4	876.3	799.8	776.0	779.8
15°	1741.3	1674.8	1518.1	1371.5	1219.8	961.5	769.7	639.3	600.5	596.7	598.0
17.5°	1810.2	1731.2	1543.2	1362.7	1068.1	734.6	571.7	536.5	544.1	556.6	555.4
20°	1881.7	1791.4	1573.3	1310.0	852.5	552.8	505.2	509.0	520.3	531.5	534.0
22.5°	1958.2	1860.4	1608.4	1183.4	650.6	481.4	478.9	483.9	495.2	507.7	510.2
25°	2063.5	1946.9	1634.7	1017.9	492.7	445.0	450.0	458.8	468.9	482.6	485.2
27.5°	2198.8	2063.5	1648.5	802.3	426.2	412.4	413.7	426.2	438.8	451.3	451.3
30°	2374.4	2202.6	1620.9	606.8	393.6	381.1	376.1	383.6	399.9	412.4	413.7
32.5°	2531.1	2334.2	1548.2	463.8	369.8	352.3	339.7	341.0	347.3	354.8	356.0
35°	2687.8	2462.1	1424.1	389.9	344.7	324.7	305.9	295.9	290.8	287.1	290.8
37.5°	2888.3	2621.3	1258.6	354.8	323.4	298.4	272.0	250.7	233.2	221.9	224.4
40°	3146.6	2842.0	1063.1	332.2	303.4	273.3	238.2	210.6	180.5	170.5	165.5
42.5°	3572.8	3176.7	857.5	313.4	283.3	247.0	203.1	165.5	137.9	127.9	130.4
45°	4246.0	3599.1	660.7	293.3	263.3	218.1	170.5	130.4	107.8	102.8	105.3
47.5°	5138.6	4145.7	509.0	270.8	238.2	186.8	134.1	102.8	89.0	87.8	86.5
50°	5978.5	4654.7	425.0	245.7	208.1	155.4	110.3	86.5	77.7	76.5	76.5
52.5°	6738.2	5019.5	346.0	216.9	175.5	127.9	92.8	76.5	68.9	65.2	65.2
55°	7413.9	5257.7	280.8	181.8	137.9	101.5	80.2	68.9	60.2	55.2	53.9
57.5°	7924.1	5286.5	210.6	145.4	102.8	79.0	68.9	60.2	50.1	43.9	41.4
60°	8142.3	5037.0	155.4	110.3	76.5	62.7	55.2	48.9	37.6	31.3	30.1
62.5°	7922.9	4551.9	115.3	84.0	58.9	46.4	38.9	36.4	26.3	18.8	17.6
65°	7136.9	3851.1	91.5	63.9	43.9	33.8	25.1	23.8	16.3	8.8	7.5
67.5°	5717.8	3016.2	72.7	47.6	31.3	22.6	16.3	15.0	8.8	2.5	2.5
70°	3718.2	1928.1	58.9	35.1	20.1	15.0	10.0	7.5	5.0	1.3	0.0
72.5°	1839.1	901.4	47.6	27.6	13.8	7.5	3.8	2.5	3.8	0.0	0.0
75°	713.3	320.9	35.1	18.8	7.5	3.8	2.5	0.0	1.3	0.0	0.0
77.5°	236.9	106.6	21.3	10.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0
80°	87.8	41.4	11.3	6.3	2.5	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	35.1	16.3	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.6	10.0	5.0	3.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	7.5	5.0	3.8	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)