

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: P651321

Luminaire Tested: **GALN-SA3D-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651321
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-SA3D-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA 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: 14049.8 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

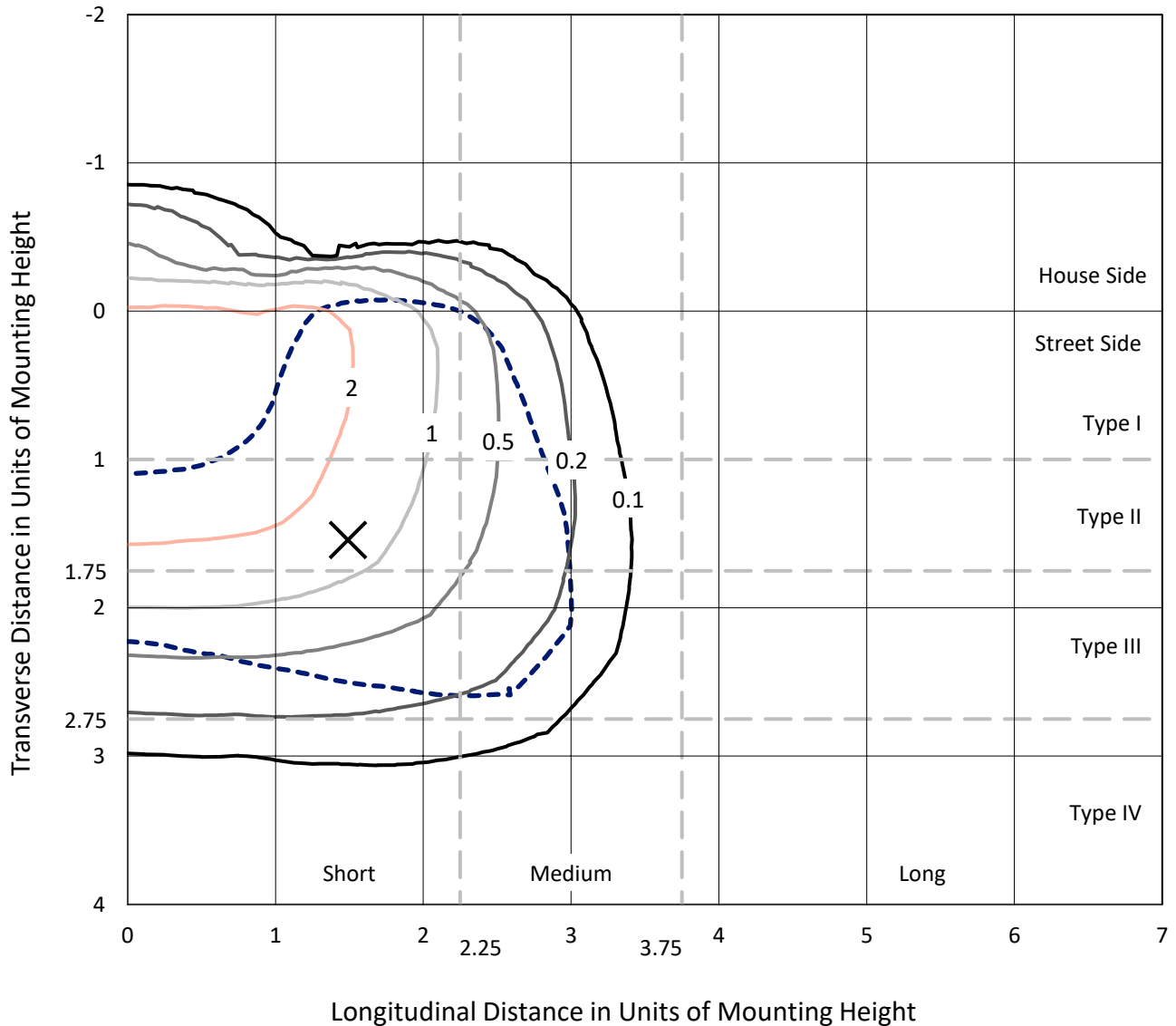
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651321
 CATALOG NUMBER: GALN-SA3D-840-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

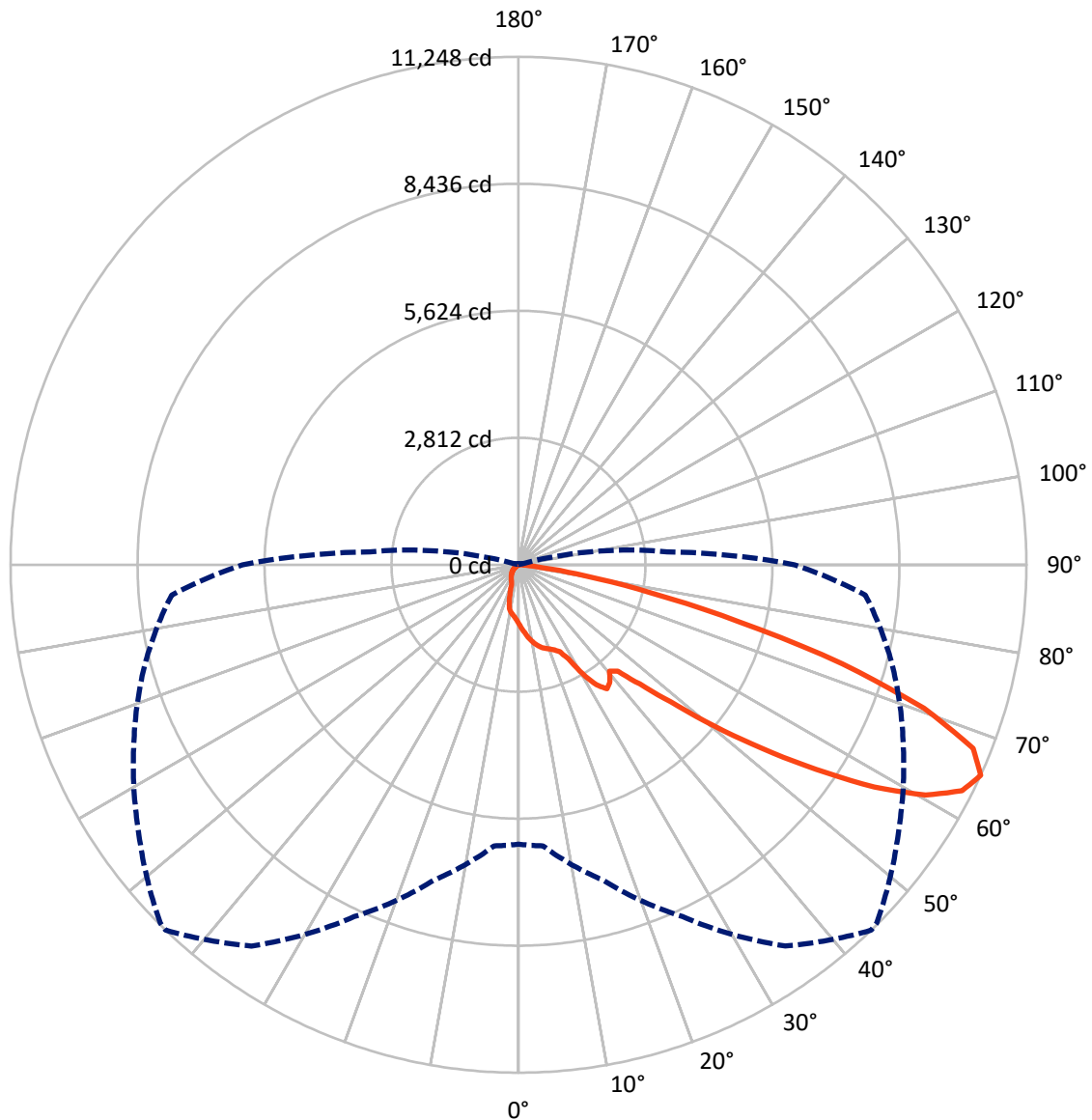
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

REPORT NUMBER: P651321
CATALOG NUMBER: GALN-SA3D-840-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651321
 CATALOG NUMBER: GALN-SA3D-840-U-T4W-HSS

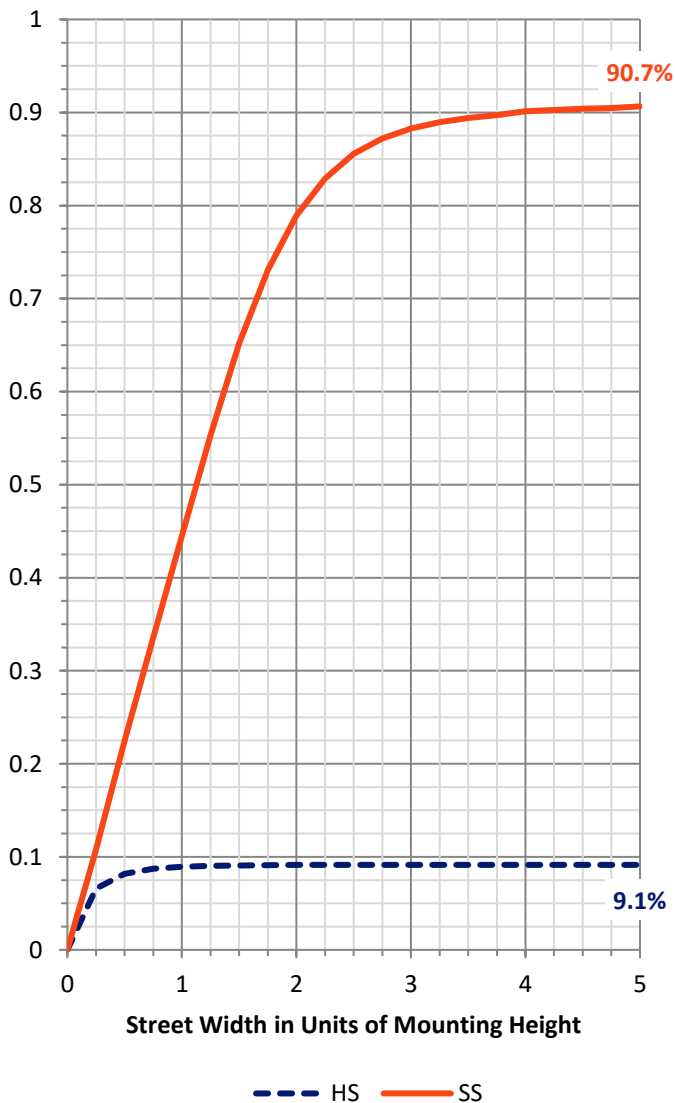
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1294.5	0.0	1294.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	12755.3	0.0	12755.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	14049.8	0.0	14049.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	0.9
10°-20°	391.4	2.8
20°-30°	663.7	4.7
30°-40°	1103.5	7.9
40°-50°	1926.8	13.7
50°-60°	3764.3	26.8
60°-70°	4367.4	31.1
70°-80°	1590.4	11.3
80°-90°	112.1	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°	14049.8	100.0
0°-180°	14049.8	100.0



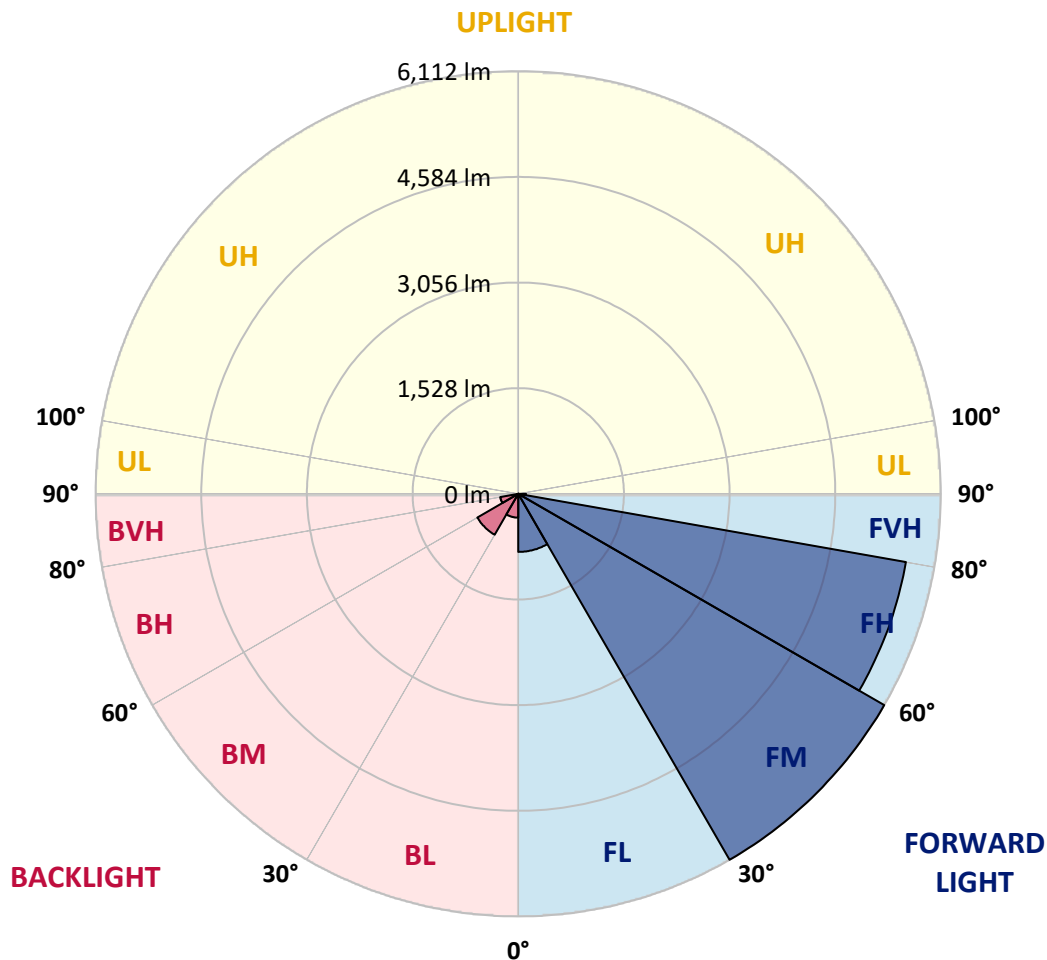
REPORT NUMBER: P651321
 CATALOG NUMBER: GALN-SA3D-840-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	840.3	6.0			
FM (30°-60°)	6111.7	43.5			
FH (60°-80°)	5692.8	40.5			G3/7500
FVH (80°-90°)	110.5	0.8			G2/225
BL (0°-30°)	344.9	2.5	B1/500		
BM (30°-60°)	683.0	4.9	B1/1000		
BH (60°-80°)	265.1	1.9	B1/500		G1/500
BVH (80°-90°)	1.5	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





REPORT NUMBER: P651321

CATALOG NUMBER: GALN-SA3D-840-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6
2.5°	1471.8	1465.4	1462.2	1445.0	1432.1	1416.1	1416.1	1395.6	1372.0	1346.3	1322.6
5°	1636.2	1625.4	1611.4	1596.4	1566.4	1523.4	1523.4	1480.5	1431.0	1387.1	1338.8
7.5°	1793.9	1784.3	1760.6	1731.7	1682.3	1637.2	1634.0	1571.7	1512.7	1446.1	1377.4
10°	1932.4	1924.9	1904.5	1848.7	1797.1	1738.1	1737.0	1667.3	1598.6	1517.0	1432.1
12.5°	2029.1	2030.1	2003.3	1949.6	1883.1	1827.2	1823.0	1754.2	1682.3	1594.3	1490.1
15°	2097.8	2097.8	2069.9	2009.7	1949.6	1900.2	1896.0	1835.8	1761.7	1666.2	1553.5
17.5°	2117.0	2123.5	2093.5	2039.8	1991.5	1948.5	1947.5	1897.0	1837.9	1745.7	1617.9
20°	2109.6	2116.0	2092.4	2050.5	2017.2	1992.6	1989.3	1968.9	1914.2	1827.2	1686.6
22.5°	2093.5	2099.9	2082.7	2058.0	2041.9	2049.4	2044.1	2061.3	2032.3	1927.1	1768.2
25°	2096.7	2103.1	2090.2	2076.3	2090.2	2136.4	2150.4	2224.4	2198.7	2053.7	1856.2
27.5°	2197.6	2210.5	2192.2	2198.7	2248.1	2355.4	2382.3	2510.0	2396.2	2214.8	1993.6
30°	2422.0	2413.4	2379.0	2410.1	2582.0	2809.5	2802.0	2781.6	2603.4	2400.6	2156.8
32.5°	2625.9	2618.5	2616.3	2750.5	3061.8	3172.4	3167.0	2969.5	2789.2	2613.1	2317.9
35°	2708.6	2679.7	2673.2	2998.5	3519.2	3373.2	3339.9	3046.8	3014.6	2844.9	2482.1
37.5°	2957.7	2937.3	2837.4	3039.3	3336.7	3288.4	3262.6	3179.9	3255.1	3050.1	2667.8
40°	3470.9	3414.0	3323.8	3126.2	3078.0	3098.3	3124.1	3350.6	3539.6	3330.2	2915.8
42.5°	4108.5	4095.7	3928.2	3560.0	3198.2	3226.1	3259.4	3707.0	3948.6	3752.1	3320.6
45°	4874.0	4892.3	4650.7	4215.9	3741.4	3765.0	3813.3	4233.1	4502.5	4408.1	3957.2
47.5°	5569.7	5555.7	5474.2	5022.2	4584.1	4531.6	4609.9	4908.4	5269.1	5284.1	4747.4
50°	6269.7	6343.7	6222.4	6045.3	5720.0	5609.4	5580.5	5726.5	6276.1	6204.1	5696.3
52.5°	7275.6	7314.3	7086.7	7041.6	7115.6	6757.1	6728.1	6763.5	7255.2	7008.3	6407.1
55°	7907.9	7885.4	7800.6	8152.7	8445.8	7998.2	7961.6	7818.9	8067.9	7576.2	7091.0
57.5°	8107.7	8139.9	8337.3	8974.0	9667.5	9287.5	9220.9	8815.1	8654.1	8105.5	7720.0
60°	8018.5	8077.6	8503.8	9450.7	10412.6	10355.7	10298.8	9617.1	9074.9	8547.8	8161.3
62.5°	7384.1	7466.7	8148.4	9365.9	10664.9	11020.2	10949.4	10117.3	9355.1	8762.5	8238.6
65°	6188.1	6249.3	7228.4	8596.1	10306.3	11247.8	11222.1	10274.1	9399.1	8566.0	7709.4
67.5°	4411.3	4619.6	5526.7	7244.5	9245.6	10859.2	10903.2	10086.2	8985.8	7716.8	6384.5
70°	2773.0	2914.7	3565.3	5186.4	7412.0	9526.8	9671.8	9226.3	7798.4	6015.3	4273.9
72.5°	1322.6	1427.8	1891.7	3283.0	5231.5	7495.7	7610.5	7574.0	6030.2	3789.7	2205.1
75°	589.4	629.2	902.9	1675.9	3377.5	5038.3	5335.6	5385.0	3768.3	1854.1	857.8
77.5°	300.6	301.7	423.0	811.6	1686.6	3006.0	3065.0	3237.9	2043.0	816.9	298.5
80°	160.0	170.7	224.4	383.2	875.0	1480.5	1472.9	1618.9	906.1	400.5	99.8
82.5°	71.9	79.5	126.7	200.7	427.3	561.5	605.5	662.4	388.6	255.5	44.0
85°	21.4	25.7	62.2	100.9	154.6	162.1	181.4	234.1	220.1	181.4	22.5
87.5°	3.2	3.2	25.7	27.9	22.5	29.0	30.0	33.3	70.9	66.5	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651321

CATALOG NUMBER: GALN-SA3D-840-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6
2.5°	1309.8	1302.2	1275.4	1252.8	1233.5	1221.7	1207.8	1199.2	1194.9	1191.7	1192.7
5°	1315.2	1296.9	1250.7	1214.2	1186.3	1156.2	1135.9	1124.0	1118.7	1110.0	1110.0
7.5°	1345.2	1316.2	1251.8	1196.0	1147.6	1106.8	1068.2	1054.3	1044.6	1042.4	1040.3
10°	1388.2	1351.7	1263.6	1186.3	1117.6	1061.8	1007.0	958.7	921.1	898.6	895.3
12.5°	1441.8	1389.2	1281.9	1179.8	1091.8	993.1	848.1	750.4	684.9	664.6	667.8
15°	1491.2	1434.3	1300.1	1174.5	1044.6	823.4	659.2	547.5	514.3	511.0	512.1
17.5°	1550.2	1482.6	1321.5	1167.0	914.7	629.2	489.5	459.5	465.9	476.7	475.6
20°	1611.4	1534.2	1347.4	1121.9	730.0	473.5	432.6	435.9	445.6	455.2	457.3
22.5°	1677.0	1593.2	1377.4	1013.5	557.2	412.3	410.1	414.4	424.0	434.8	437.0
25°	1767.1	1667.3	1399.9	871.8	421.9	381.1	385.4	392.9	401.5	413.4	415.5
27.5°	1883.1	1767.1	1411.8	687.1	365.0	353.2	354.3	365.0	375.8	386.5	386.5
30°	2033.4	1886.3	1388.2	519.6	337.1	326.4	322.1	328.5	342.5	353.2	354.3
32.5°	2167.5	1999.0	1325.8	397.2	316.7	301.7	290.9	292.0	297.4	303.9	304.9
35°	2301.7	2108.5	1219.6	333.9	295.2	278.0	262.0	253.4	249.1	245.8	249.1
37.5°	2473.5	2244.9	1077.9	303.9	276.9	255.5	233.0	214.7	199.7	190.0	192.2
40°	2694.6	2433.8	910.4	284.5	259.8	234.1	203.9	180.4	154.6	146.0	141.7
42.5°	3059.6	2720.5	734.4	268.4	242.6	211.5	173.9	141.7	118.1	109.5	111.7
45°	3636.2	3082.3	565.7	251.2	225.5	186.8	146.0	111.7	92.3	88.1	90.2
47.5°	4400.6	3550.3	435.9	231.9	203.9	160.0	114.9	88.1	76.2	75.2	74.1
50°	5119.8	3986.2	363.9	210.4	178.2	133.1	94.4	74.1	66.5	65.5	65.5
52.5°	5770.4	4298.6	296.3	185.7	150.3	109.5	79.5	65.5	59.0	55.8	55.8
55°	6349.1	4502.5	240.4	155.7	118.1	87.0	68.7	59.0	51.6	47.3	46.2
57.5°	6786.0	4527.3	180.4	124.6	88.1	67.6	59.0	51.6	43.0	37.6	35.4
60°	6972.9	4313.7	133.1	94.4	65.5	53.7	47.3	41.9	32.2	26.8	25.7
62.5°	6785.0	3898.1	98.7	71.9	50.5	39.7	33.3	31.1	22.5	16.1	15.1
65°	6111.9	3298.0	78.4	54.7	37.6	29.0	21.4	20.4	14.0	7.5	6.5
67.5°	4896.6	2583.0	62.2	40.8	26.8	19.3	14.0	12.9	7.5	2.2	2.2
70°	3184.2	1651.1	50.5	30.0	17.2	12.9	8.6	6.5	4.3	1.1	0.0
72.5°	1574.9	771.9	40.8	23.6	11.8	6.5	3.2	2.2	3.2	0.0	0.0
75°	610.9	274.8	30.0	16.1	6.5	3.2	2.2	0.0	1.1	0.0	0.0
77.5°	202.9	91.2	18.2	8.6	4.3	2.2	0.0	0.0	0.0	0.0	0.0
80°	75.2	35.4	9.7	5.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	30.0	14.0	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.1	8.6	4.3	3.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.8	6.5	4.3	3.2	2.2	1.1	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)