

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: P652301

Luminaire Tested: **GALN-SA3B-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8531.1 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

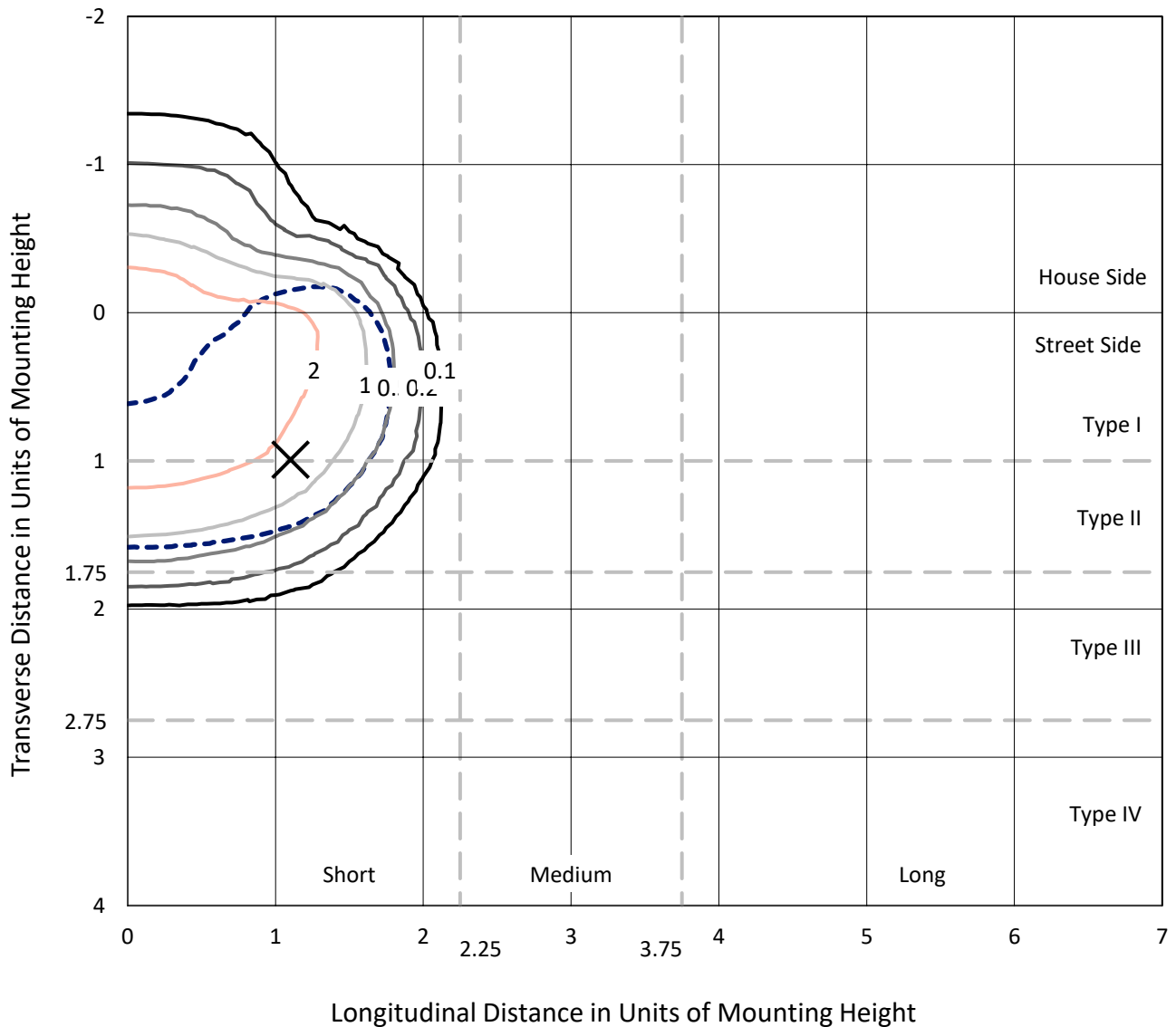
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652301
 CATALOG NUMBER: GALN-SA3B-840-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

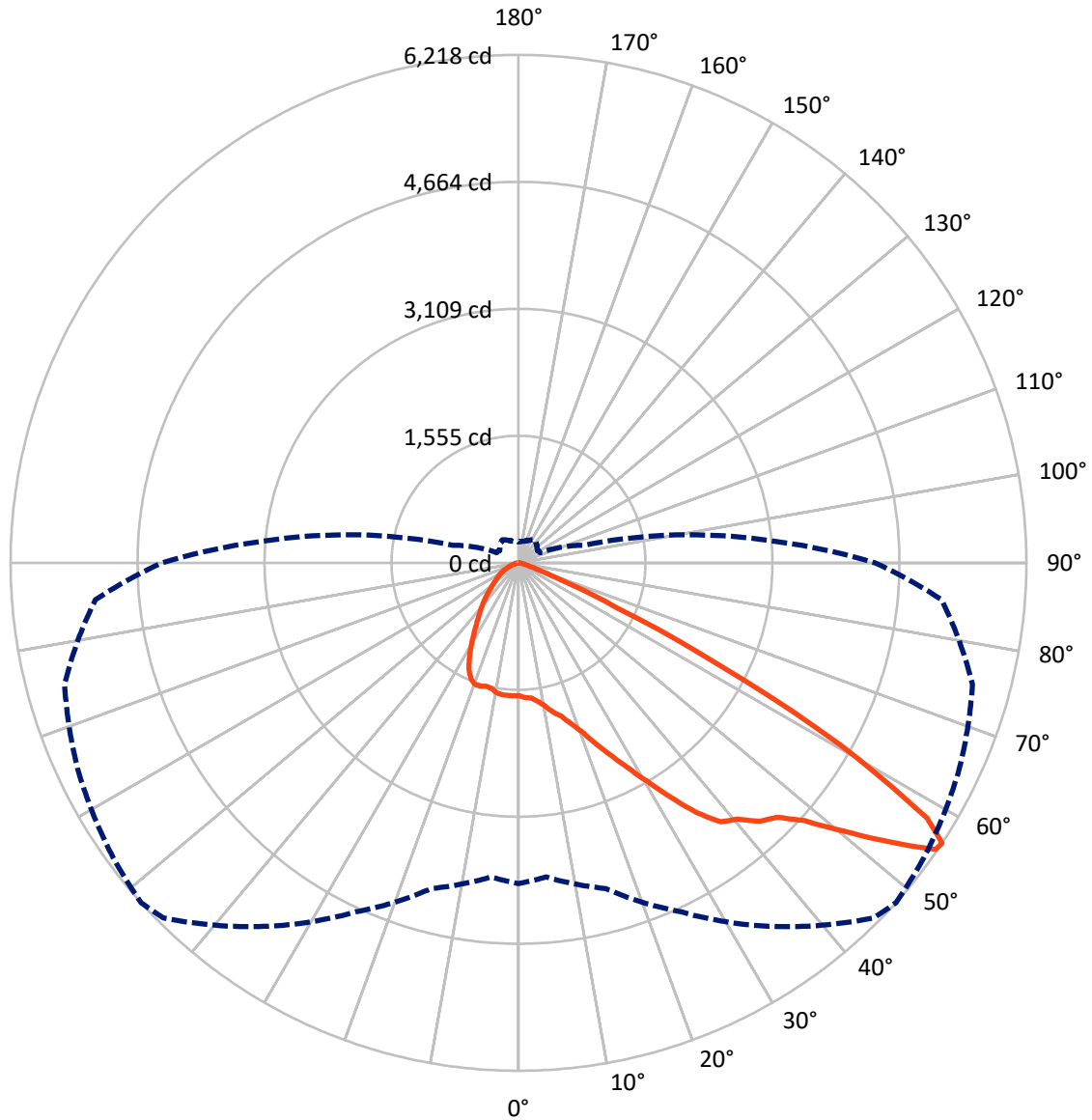
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

REPORT NUMBER: P652301
CATALOG NUMBER: GALN-SA3B-840-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P652301
 CATALOG NUMBER: GALN-SA3B-840-U-T3-GRSBK

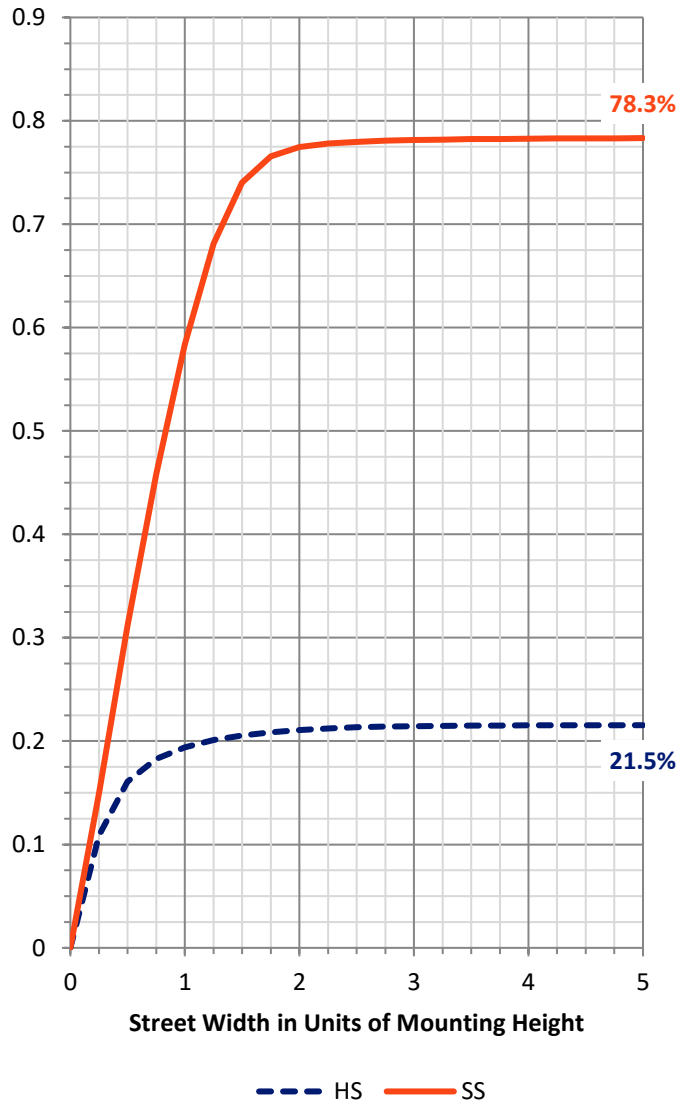
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1855.3	0.0	1855.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6675.7	0.0	6675.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	8531.1	0.0	8531.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	1.9
10°-20°	507.3	5.9
20°-30°	920.1	10.8
30°-40°	1445.2	16.9
40°-50°	2108.3	24.7
50°-60°	2540.2	29.8
60°-70°	743.7	8.7
70°-80°	94.4	1.1
80°-90°	13.2	0.2
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°	8531.1	100.0
0°-180°	8531.1	100.0

Coefficient of Utilization

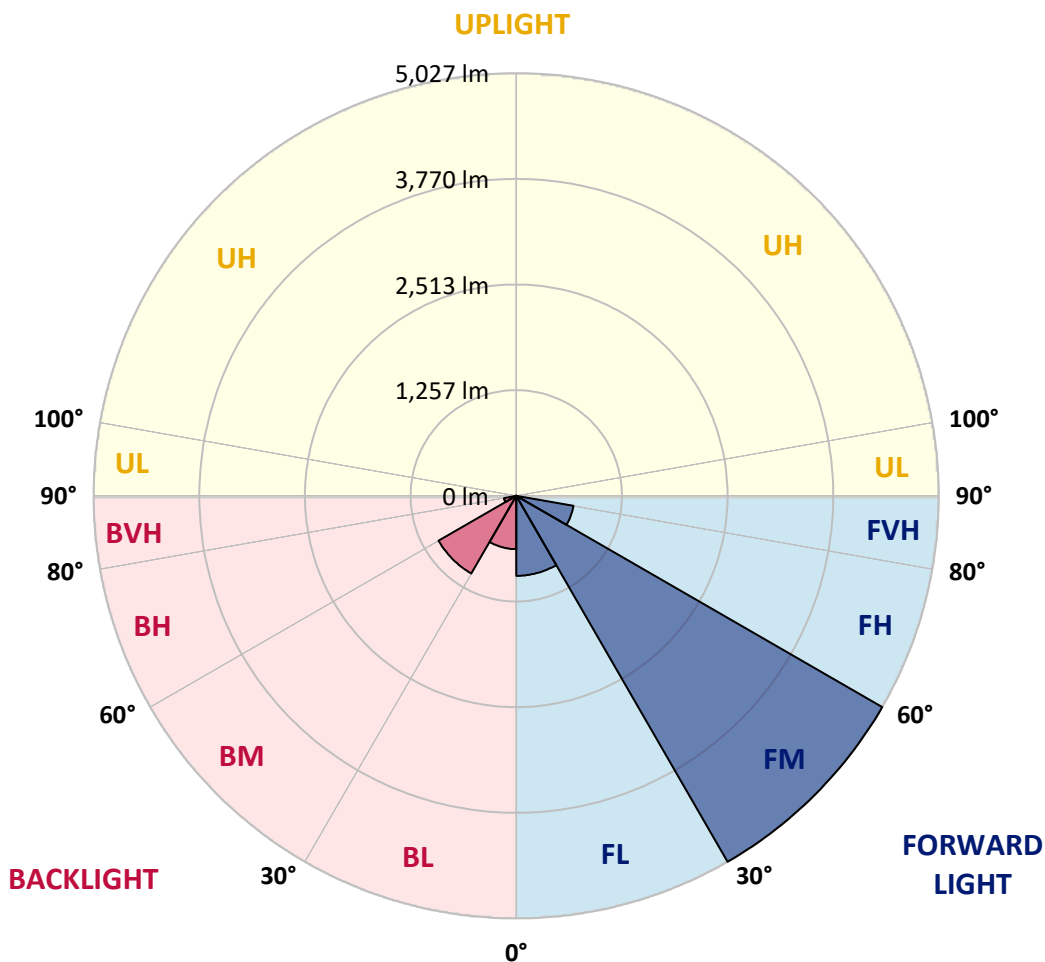


REPORT NUMBER: P652301
 CATALOG NUMBER: GALN-SA3B-840-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	951.9	11.2			
FM (30°-60°)	5026.6	58.9			
FH (60°-80°)	690.7	8.1			G1/1800
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	634.2	7.4	B2/1000		
BM (30°-60°)	1067.2	12.5	B2/2500		
BH (60°-80°)	147.4	1.7	B1/500		G1/500
BVH (80°-90°)	6.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





REPORT NUMBER: P652301

CATALOG NUMBER: GALN-SA3B-840-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4
2.5°	1659.0	1651.2	1651.2	1638.8	1652.7	1646.5	1651.2	1635.7	1651.2	1627.9	1646.5
5°	1666.7	1668.3	1662.1	1669.8	1669.8	1679.1	1663.6	1677.6	1685.4	1668.3	1660.5
7.5°	1707.1	1710.3	1708.7	1702.4	1714.9	1713.3	1711.8	1700.9	1704.0	1697.8	1688.5
10°	1786.4	1784.8	1792.5	1777.0	1767.7	1778.5	1781.7	1764.6	1752.1	1747.5	1718.0
12.5°	1901.2	1882.7	1871.7	1856.3	1860.9	1845.3	1873.3	1843.8	1837.6	1809.7	1780.1
15°	1994.5	1991.4	1992.9	1968.1	1940.1	1946.3	1946.3	1930.8	1921.4	1887.3	1845.3
17.5°	2185.5	2120.3	2134.3	2103.2	2079.9	2078.4	2064.4	2067.5	2042.6	1971.1	1907.5
20°	2334.6	2306.7	2284.9	2232.1	2196.4	2207.3	2201.1	2185.5	2177.8	2084.6	1994.5
22.5°	2468.3	2477.6	2441.8	2427.9	2378.2	2382.8	2395.3	2381.3	2322.3	2226.0	2092.3
25°	2656.2	2645.3	2597.2	2580.1	2533.5	2550.6	2598.7	2587.8	2550.6	2376.6	2168.4
27.5°	2878.3	2841.1	2850.4	2772.7	2727.6	2775.8	2833.2	2887.7	2782.0	2553.7	2258.5
30°	3035.2	2996.4	2993.3	2990.2	2979.3	3035.2	3102.0	3151.7	3066.3	2730.7	2407.7
32.5°	3112.9	3122.2	3148.6	3139.3	3234.1	3348.9	3418.9	3490.3	3383.2	3019.7	2604.9
35°	3319.4	3260.5	3319.4	3325.7	3423.5	3667.4	3756.0	3926.8	3900.4	3428.2	2845.7
37.5°	3440.6	3436.0	3443.7	3502.8	3597.5	3898.9	4024.7	4156.7	4107.0	3673.7	3145.5
40°	3641.0	3653.5	3651.9	3697.0	3801.0	4072.8	4124.1	4231.2	4235.9	4013.8	3586.6
42.5°	3962.5	3912.8	3880.2	3926.8	4072.8	4223.5	4326.0	4304.3	4458.1	4427.0	4153.6
45°	4251.5	4280.9	4232.8	4310.5	4363.3	4444.1	4441.0	4487.6	4683.3	4830.9	4580.8
47.5°	4521.7	4540.4	4563.7	4616.5	4731.5	4743.9	4717.5	4697.2	4967.5	5119.8	4911.6
50°	4683.3	4700.3	4809.1	4903.9	5118.2	5146.2	5161.7	5110.4	5293.8	5310.8	5223.9
52.5°	4639.8	4658.5	4810.7	5122.9	5464.6	5720.9	5674.3	5587.4	5576.4	5643.3	5512.8
55°	4254.5	4237.5	4447.2	4933.4	5573.4	6188.5	6194.7	6103.1	5927.5	5882.5	5469.3
56°	3926.8	3860.0	4127.2	4714.4	5433.5	6148.0	6218.0	6120.1	5955.5	5753.5	5200.6
57.5°	3216.9	3280.7	3546.2	4032.4	4950.5	5857.6	5898.0	5874.7	5750.4	5411.8	4576.1
60°	1773.9	1885.8	2120.3	2715.3	3524.5	4495.3	4527.9	4717.5	4740.8	4144.3	3148.6
62.5°	753.4	740.9	984.8	1422.9	2006.9	2713.7	2774.3	2968.4	3004.1	2389.0	1579.7
65°	306.0	323.1	445.8	716.1	1060.9	1236.4	1321.9	1385.5	1503.6	986.3	582.5
67.5°	201.9	200.4	262.5	408.6	571.6	551.4	551.4	582.5	539.0	402.3	251.6
70°	144.5	149.1	188.0	282.7	355.7	264.1	253.2	242.3	274.9	265.6	203.5
72.5°	94.8	101.0	125.8	169.3	184.9	144.5	144.5	174.0	226.8	214.4	166.2
75°	62.1	63.7	77.7	97.9	91.7	74.6	82.3	116.5	164.7	158.4	118.1
77.5°	42.0	43.5	52.8	63.7	51.3	42.0	45.1	59.0	80.7	80.7	62.1
80°	15.6	17.1	21.8	20.2	23.3	29.5	32.6	40.4	48.2	48.2	42.0
82.5°	0.0	1.5	4.6	10.8	17.1	23.3	26.4	31.0	35.7	40.4	38.9
85°	0.0	1.5	4.6	7.7	12.4	14.0	15.6	10.8	9.3	9.3	7.7
87.5°	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	3.1	1.5	1.5
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: P652301

CATALOG NUMBER: GALN-SA3B-840-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4
2.5°	1629.4	1627.9	1627.9	1623.2	1632.5	1627.9	1631.0	1629.4	1609.3	1624.8	1613.9
5°	1646.5	1657.4	1640.3	1637.2	1624.8	1629.4	1629.4	1613.9	1627.9	1626.3	1623.2
7.5°	1690.0	1671.4	1652.7	1634.1	1631.0	1626.3	1609.3	1603.0	1613.9	1601.5	1620.1
10°	1708.7	1711.8	1683.9	1659.0	1635.7	1603.0	1579.7	1565.8	1548.7	1567.3	1578.2
12.5°	1794.1	1763.1	1714.9	1676.0	1596.8	1564.2	1540.9	1534.7	1564.2	1570.4	1559.6
15°	1823.6	1818.9	1756.8	1669.8	1587.5	1548.7	1553.3	1540.9	1544.0	1528.5	1531.5
17.5°	1884.2	1831.4	1758.4	1649.6	1586.0	1576.6	1548.7	1499.0	1471.0	1458.5	1469.5
20°	1951.0	1899.7	1794.1	1657.4	1599.9	1575.1	1483.4	1422.9	1365.4	1334.3	1335.8
22.5°	2010.0	1946.3	1778.5	1660.5	1612.4	1509.8	1399.6	1279.9	1208.5	1160.3	1161.9
25°	2081.5	1991.4	1784.8	1666.7	1579.7	1405.7	1247.3	1130.8	1045.4	1012.7	1023.7
27.5°	2121.8	2019.3	1818.9	1680.7	1494.3	1258.2	1087.3	978.6	928.9	913.3	911.8
30°	2243.0	2081.5	1860.9	1652.7	1351.4	1099.8	941.3	874.6	826.4	812.4	815.5
32.5°	2423.2	2194.8	1915.3	1579.7	1205.4	958.4	846.6	796.8	751.9	725.4	722.3
35°	2573.9	2389.0	1972.7	1466.4	1036.1	849.7	779.8	717.6	649.3	619.8	612.0
37.5°	2861.3	2608.0	1960.3	1295.5	874.6	768.9	708.3	632.2	573.1	532.8	528.1
40°	3243.3	2864.4	1899.7	1087.3	754.9	697.4	632.2	559.2	486.2	452.0	448.9
42.5°	3707.8	3178.1	1789.4	876.1	635.3	626.0	567.0	483.1	417.8	393.0	394.5
45°	4085.2	3446.8	1677.6	703.7	546.7	556.1	504.9	425.6	380.6	360.4	360.4
47.5°	4420.8	3628.6	1556.4	581.0	464.5	486.2	441.1	394.5	355.7	340.2	337.1
50°	4743.9	3813.4	1435.3	470.6	396.1	417.8	413.2	375.9	344.8	326.2	327.7
52.5°	4945.8	3842.9	1281.5	385.3	346.4	371.2	386.8	352.6	318.4	307.6	304.4
55°	4698.8	3462.4	994.1	316.9	293.6	326.2	355.7	316.9	290.5	271.8	270.3
56°	4366.4	3095.8	831.0	292.0	278.0	313.8	344.8	302.9	273.4	262.5	254.7
57.5°	3697.0	2533.5	613.6	259.4	257.9	292.0	327.7	288.9	254.7	245.4	245.4
60°	2305.2	1426.0	371.2	217.5	223.7	259.4	295.1	257.9	226.8	226.8	231.4
62.5°	1050.1	593.4	225.2	184.9	192.6	223.7	262.5	233.0	215.9	233.0	236.1
65°	357.3	256.3	163.1	147.6	152.2	184.9	225.2	236.1	234.6	245.4	251.6
67.5°	200.4	164.7	136.7	122.7	119.6	136.7	184.9	236.1	226.8	222.1	225.2
70°	169.3	139.8	121.2	108.7	104.0	110.3	142.9	178.6	160.0	155.3	152.2
72.5°	136.7	116.5	105.6	97.9	83.8	71.5	65.3	68.4	76.1	80.7	88.6
75°	96.3	88.6	88.6	79.2	60.6	45.1	35.7	29.5	20.2	14.0	15.6
77.5°	54.3	54.3	55.9	48.2	38.9	29.5	21.8	15.6	7.7	3.1	1.5
80°	37.3	40.4	43.5	38.9	32.6	26.4	18.7	10.8	4.6	0.0	0.0
82.5°	37.3	42.0	45.1	38.9	32.6	24.9	18.7	10.8	4.6	1.5	0.0
85°	7.7	9.3	10.8	12.4	18.7	18.7	14.0	9.3	4.6	1.5	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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)