

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: P650673

Luminaire Tested: **GALN-SA1C-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5398.4 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

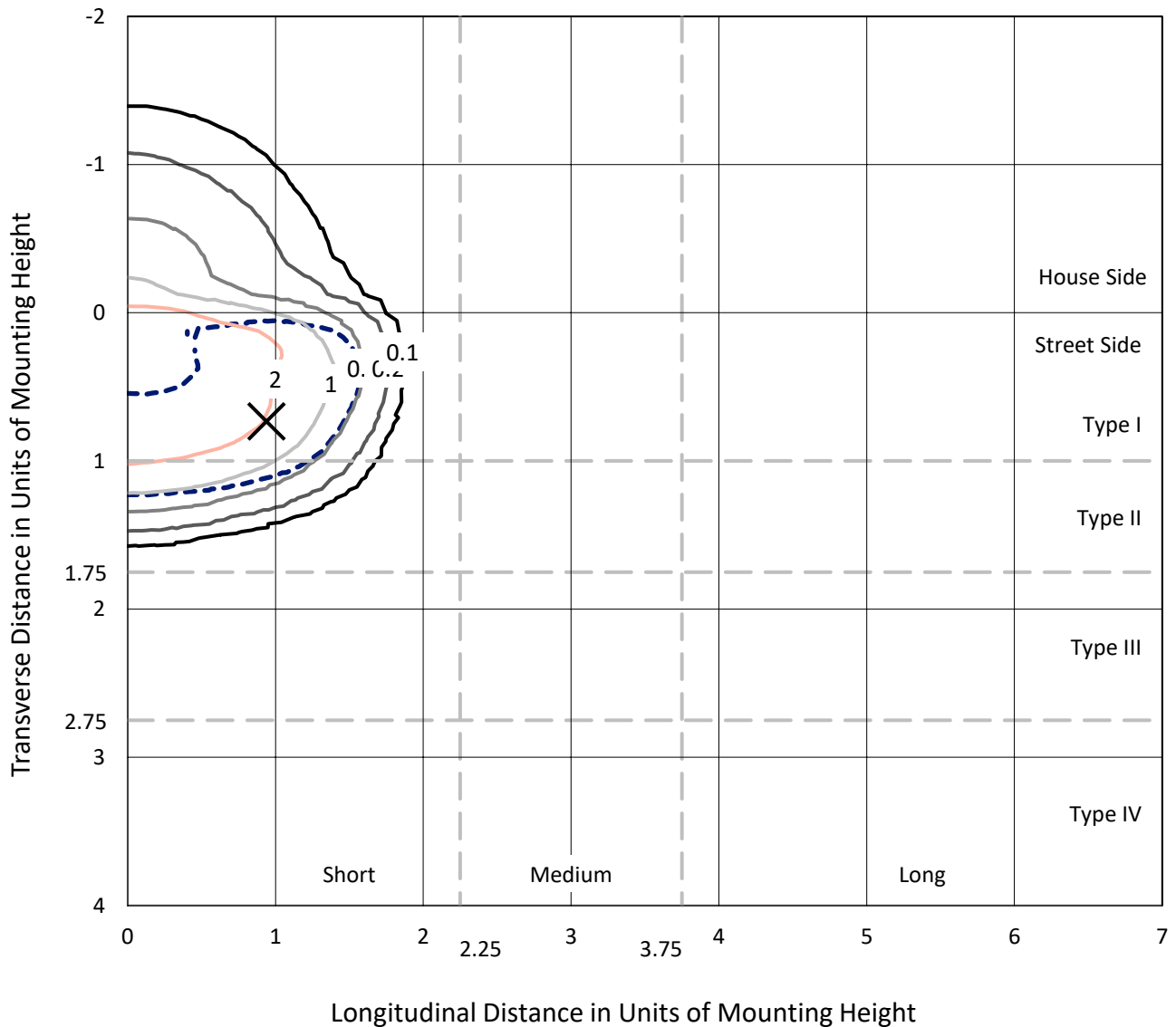
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650673
 CATALOG NUMBER: GALN-SA1C-840-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

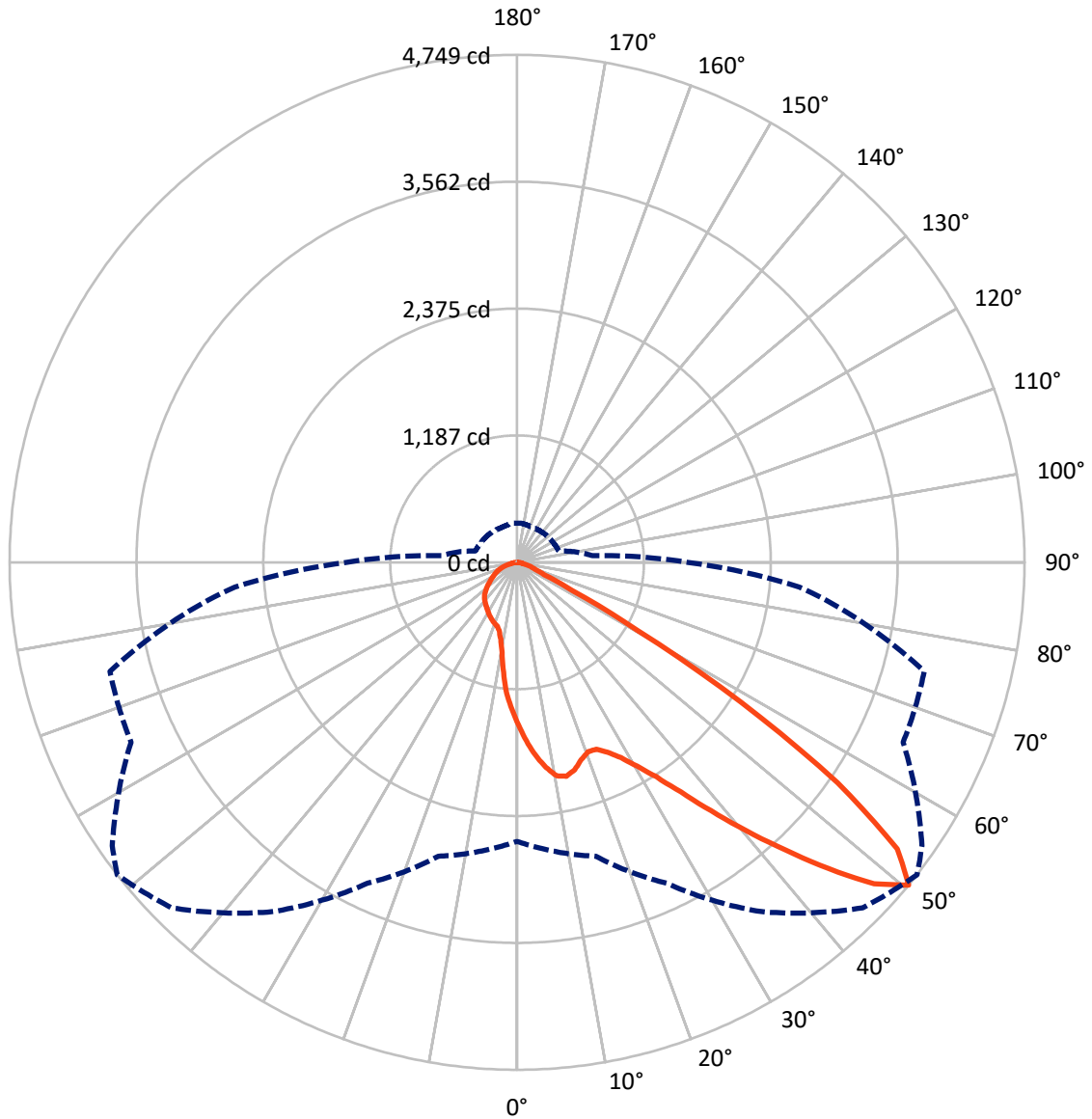
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

REPORT NUMBER: P650673
CATALOG NUMBER: GALN-SA1C-840-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P650673
 CATALOG NUMBER: GALN-SA1C-840-U-AFL-GRSWH

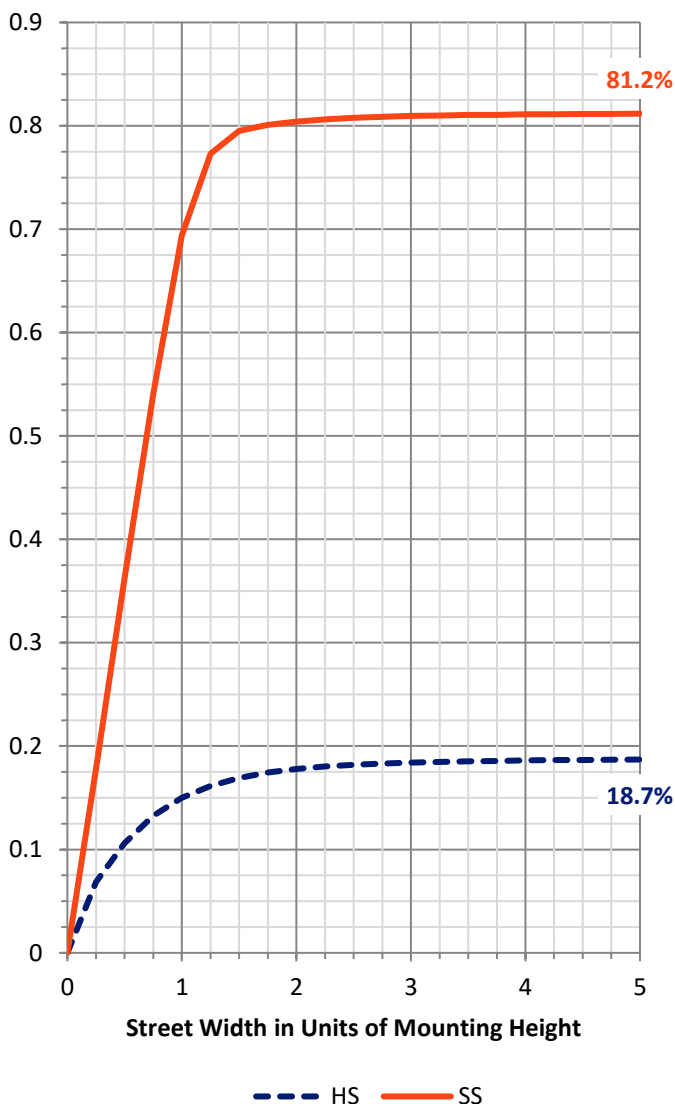
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1014.8	0.0	1014.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4383.6	0.0	4383.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	5398.4	0.0	5398.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	2.6
10°-20°	375.9	7.0
20°-30°	633.2	11.7
30°-40°	1062.6	19.7
40°-50°	1625.5	30.1
50°-60°	1185.1	22.0
60°-70°	263.8	4.9
70°-80°	95.1	1.8
80°-90°	16.8	0.3
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°	5398.4	100.0
0°-180°	5398.4	100.0

Coefficient of Utilization

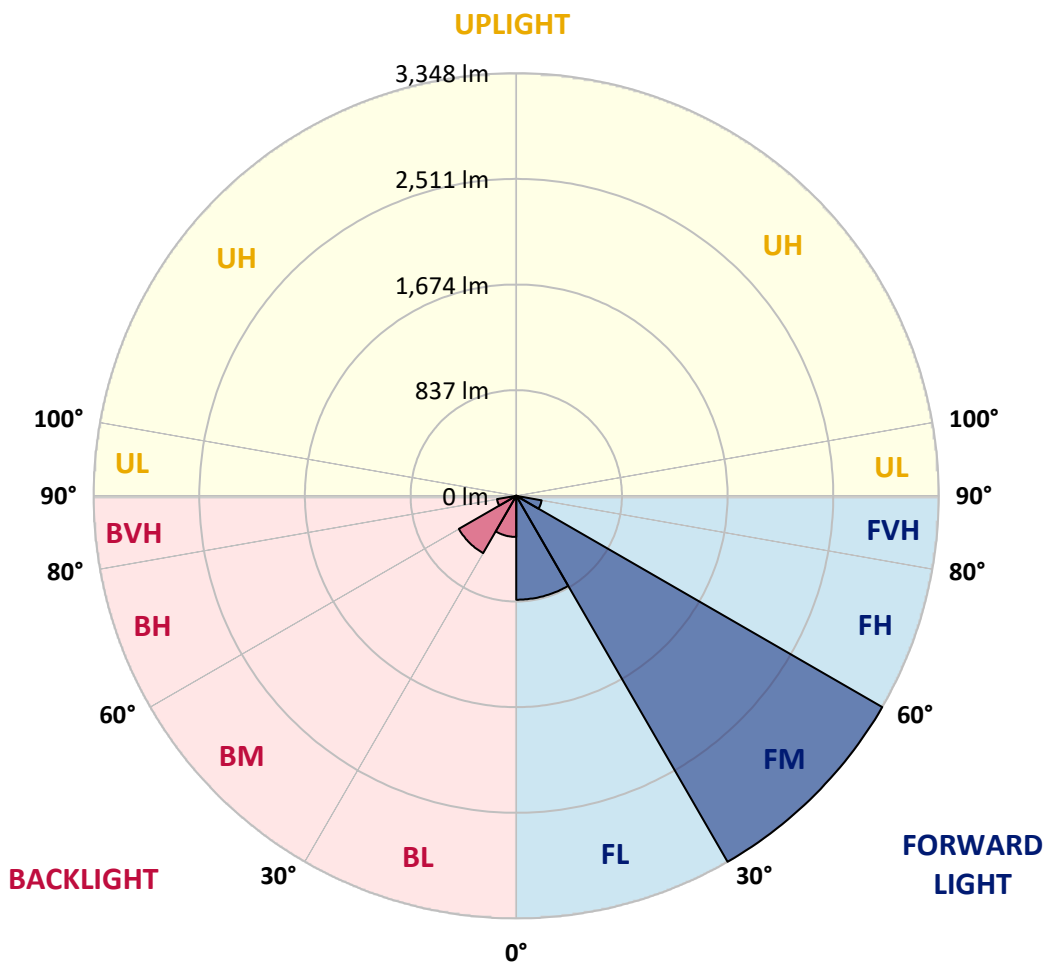


REPORT NUMBER: P650673
 CATALOG NUMBER: GALN-SA1C-840-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	823.4	15.3			
FM (30°-60°)	3348.3	62.0			
FH (60°-80°)	204.3	3.8			G0/660
FVH (80°-90°)	7.5	0.1			G0/10
BL (0°-30°)	326.0	6.0	B1/500		
BM (30°-60°)	524.9	9.7	B1/1000		
BH (60°-80°)	154.6	2.9	B1/500		G1/500
BVH (80°-90°)	9.3	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





REPORT NUMBER: P650673

CATALOG NUMBER: GALN-SA1C-840-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1521.7	1521.7	1521.7	1521.7	1521.7	1521.7	1521.7	1521.7	1521.7	1521.7	1521.7
2.5°	1791.7	1757.2	1761.1	1736.4	1709.8	1701.9	1674.6	1648.6	1629.1	1587.4	1549.0
5°	1958.3	1947.8	1932.2	1912.7	1892.6	1843.1	1815.1	1782.6	1711.0	1646.6	1582.8
7.5°	1982.3	1980.4	1988.8	1988.8	1996.0	1977.1	1937.4	1914.7	1838.5	1733.8	1615.4
10°	1813.2	1819.0	1860.0	1913.4	1987.5	2038.9	2032.4	2026.6	1943.3	1800.2	1653.7
12.5°	1678.5	1665.5	1689.6	1735.1	1846.3	1970.6	2054.6	2055.2	2033.7	1906.2	1681.7
15°	1602.4	1611.5	1618.0	1639.4	1723.4	1867.2	2014.9	2058.4	2152.8	1981.1	1726.0
17.5°	1651.2	1620.6	1619.3	1624.5	1667.5	1775.4	1941.4	2016.1	2217.8	2077.3	1780.6
20°	1715.0	1714.3	1696.0	1689.6	1688.9	1785.2	1893.2	1994.7	2252.3	2202.2	1836.0
22.5°	1826.8	1826.8	1796.9	1782.6	1752.1	1830.8	1899.7	1968.7	2309.6	2288.1	1862.6
25°	2014.2	1983.7	1932.2	1897.1	1879.6	1907.5	1968.7	2030.5	2359.7	2379.2	1917.9
27.5°	2187.3	2139.1	2113.8	2053.2	2029.8	2013.5	2069.5	2131.9	2418.2	2521.0	1947.8
30°	2383.7	2375.3	2329.7	2251.7	2193.7	2163.8	2215.2	2277.0	2525.5	2666.1	2016.8
32.5°	2735.0	2658.3	2596.5	2500.9	2406.5	2342.8	2393.5	2434.4	2703.8	2817.7	2092.2
35°	3114.3	3089.6	2982.9	2810.5	2666.1	2608.9	2638.8	2669.3	2911.4	3049.3	2219.1
37.5°	3487.1	3453.3	3365.4	3220.4	3044.8	2928.3	2949.7	2985.5	3144.2	3361.6	2374.0
40°	3755.1	3713.5	3669.3	3647.8	3473.5	3314.0	3301.7	3310.8	3459.1	3654.3	2545.7
42.5°	3774.7	3826.0	3839.8	3926.3	3885.3	3754.5	3678.4	3680.4	3759.7	3943.9	2719.5
45°	3733.7	3686.2	3787.0	4023.2	4158.5	4219.7	4091.5	4075.2	3945.8	4111.6	2806.0
47.5°	3303.7	3316.7	3487.1	3860.5	4251.6	4524.8	4494.9	4440.9	4045.3	4105.8	2792.3
50°	2611.5	2690.2	2848.2	3313.5	3991.3	4572.9	4749.3	4624.3	3986.1	3944.5	2653.1
52.5°	1739.0	1771.6	1875.6	2476.2	3209.3	4087.6	4456.5	4485.1	3931.5	3733.0	2476.7
55°	774.2	771.6	918.0	1293.4	2013.5	3110.4	3641.3	3815.7	3721.3	3517.7	2305.0
57.5°	327.9	338.9	398.8	558.8	990.2	1876.9	2467.0	2619.9	2861.9	2888.6	1768.3
60°	221.9	223.1	239.4	279.7	414.4	881.5	1294.0	1477.5	1650.5	1638.9	938.1
62.5°	174.3	178.9	191.2	207.6	245.9	400.1	579.0	681.1	692.2	582.3	355.8
65°	149.0	149.6	162.0	175.7	192.6	232.9	279.1	284.3	287.5	277.1	261.6
67.5°	123.0	124.3	134.1	149.6	165.3	178.3	191.2	197.8	212.8	242.0	238.1
70°	97.6	99.6	108.0	121.0	135.3	143.1	159.4	165.3	178.9	201.7	210.8
72.5°	74.2	74.8	82.0	91.1	104.1	111.9	125.6	132.0	141.2	160.7	169.1
75°	53.3	55.3	60.5	65.1	67.0	72.2	85.2	92.3	105.4	113.9	114.5
77.5°	28.0	29.3	30.6	30.6	37.1	46.8	55.3	59.2	68.3	74.8	71.6
80°	11.1	11.7	15.0	20.2	26.0	33.8	39.7	41.6	49.5	53.3	55.3
82.5°	6.5	7.1	9.8	14.3	18.8	24.1	28.6	30.6	35.7	40.4	41.6
85°	3.3	3.9	5.9	9.1	12.4	15.0	14.3	13.6	13.6	13.0	13.6
87.5°	1.3	1.3	1.9	1.9	1.9	2.6	3.3	3.3	3.3	3.9	3.9
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: P650673

CATALOG NUMBER: GALN-SA1C-840-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1521.7	1521.7	1521.7	1521.7	1521.7	1521.7	1521.7	1521.7	1521.7	1521.7	1521.7
2.5°	1523.6	1497.7	1473.6	1429.4	1381.2	1367.6	1311.5	1291.4	1277.1	1260.2	1254.9
5°	1531.5	1497.0	1419.6	1330.5	1259.6	1168.5	1108.6	1044.2	997.3	985.7	982.4
7.5°	1547.8	1488.6	1355.2	1220.5	1075.4	951.8	857.5	806.7	761.9	759.3	754.7
10°	1565.9	1463.2	1284.9	1073.5	888.0	773.6	717.0	694.8	683.7	681.1	679.9
12.5°	1580.9	1458.0	1206.2	930.3	755.3	686.3	669.4	667.5	672.0	673.4	676.0
15°	1587.4	1437.1	1111.2	802.1	672.7	647.3	654.5	662.3	665.6	674.0	667.5
17.5°	1599.8	1410.4	994.1	700.6	626.5	631.1	643.4	652.5	657.7	663.6	655.1
20°	1606.3	1386.4	884.1	640.2	610.2	618.7	635.6	642.8	649.3	651.9	642.1
22.5°	1600.4	1336.9	787.2	591.4	594.7	605.7	620.7	628.5	624.5	614.2	608.3
25°	1584.8	1267.3	686.3	560.2	572.6	592.1	603.8	597.9	590.7	584.9	582.9
27.5°	1584.2	1182.1	613.5	531.5	553.6	580.3	576.4	571.2	574.5	569.9	564.7
30°	1587.4	1099.5	553.6	515.3	540.0	553.0	557.6	552.4	556.2	547.8	550.4
32.5°	1570.5	1018.8	514.6	496.4	523.7	523.1	538.1	541.9	532.9	515.3	517.9
35°	1577.6	953.8	481.5	487.9	505.5	505.5	517.2	512.7	488.6	478.2	480.8
37.5°	1627.1	890.0	465.2	476.3	487.9	493.2	489.2	469.7	463.9	463.9	465.2
40°	1673.9	835.4	455.4	473.7	471.6	474.9	446.3	448.3	448.3	448.9	445.6
42.5°	1715.6	798.3	447.6	458.0	461.3	444.4	426.8	424.8	429.4	428.7	426.1
45°	1730.5	767.7	436.6	440.4	443.0	415.0	406.6	402.7	407.9	409.9	412.5
47.5°	1673.3	742.4	424.2	416.4	411.2	392.9	381.9	374.7	381.2	392.3	394.9
50°	1599.8	709.1	404.7	389.7	378.6	370.8	363.1	355.8	360.5	368.2	366.3
52.5°	1491.2	657.1	380.0	364.3	345.5	347.4	340.3	336.3	338.9	338.9	337.0
55°	1336.3	540.0	338.3	327.2	311.6	316.8	318.2	312.9	307.7	312.3	308.4
57.5°	912.1	381.2	301.8	301.8	286.3	293.4	292.8	280.4	268.0	269.4	266.8
60°	527.6	303.9	278.5	275.8	259.6	265.4	266.8	258.3	239.4	240.7	238.1
62.5°	299.9	259.6	243.3	239.4	236.2	241.4	241.4	230.3	214.0	215.4	212.8
65°	255.0	240.7	217.3	216.6	215.4	216.6	211.4	199.7	185.4	179.6	180.2
67.5°	231.6	222.5	199.7	193.9	190.0	189.3	179.6	168.5	162.0	156.8	156.2
70°	203.0	195.8	178.9	171.1	167.2	158.1	148.4	141.2	132.0	129.4	132.0
72.5°	160.7	160.0	153.6	145.1	136.7	129.4	121.0	111.3	102.8	100.8	96.3
75°	111.3	112.5	113.9	112.5	105.4	96.3	86.5	78.7	68.3	62.5	61.1
77.5°	72.8	74.8	76.8	74.2	69.6	61.1	54.7	44.9	37.1	32.5	31.9
80°	53.3	55.9	57.3	55.3	50.1	43.6	36.4	28.6	22.8	18.8	18.8
82.5°	41.0	43.6	44.9	41.6	36.4	31.2	26.0	20.2	15.6	12.4	11.7
85°	14.3	13.6	16.2	16.9	20.2	18.8	15.6	11.7	9.1	6.5	5.9
87.5°	3.9	3.9	4.5	4.5	3.9	3.3	3.3	3.3	2.6	1.9	1.9
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)