

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: P646961

Luminaire Tested: **GALN-SA5C-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18232.2 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

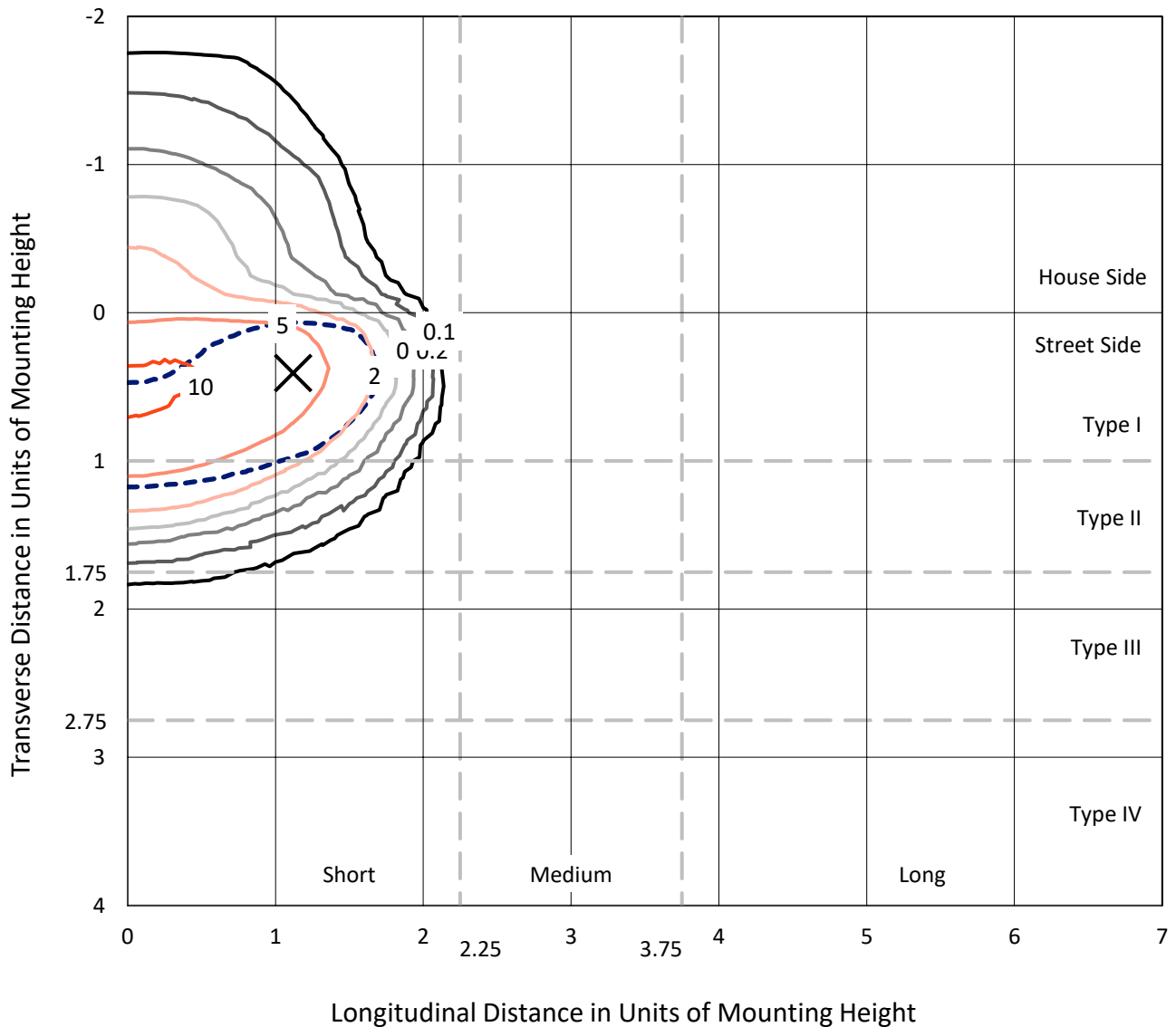
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

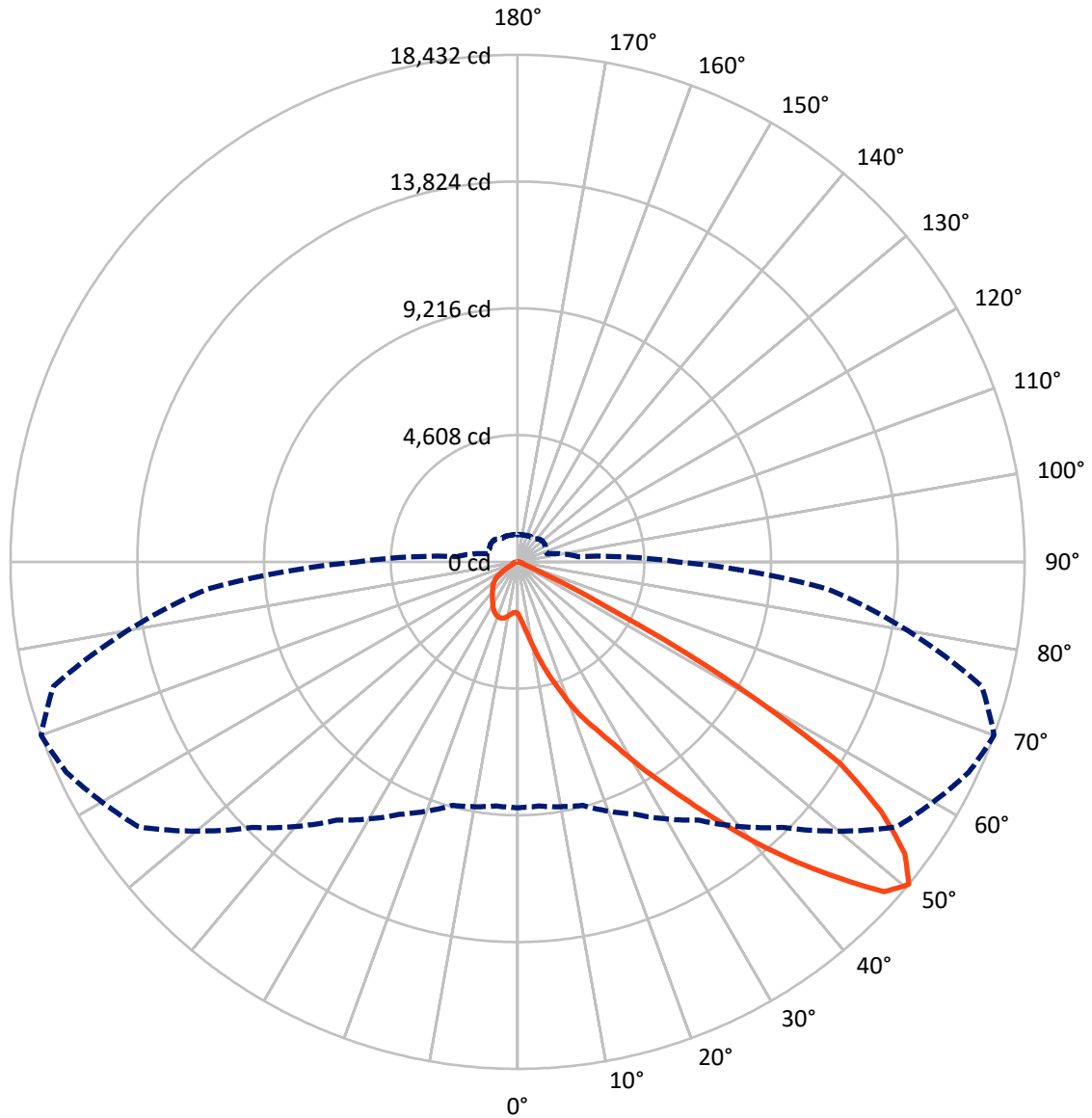
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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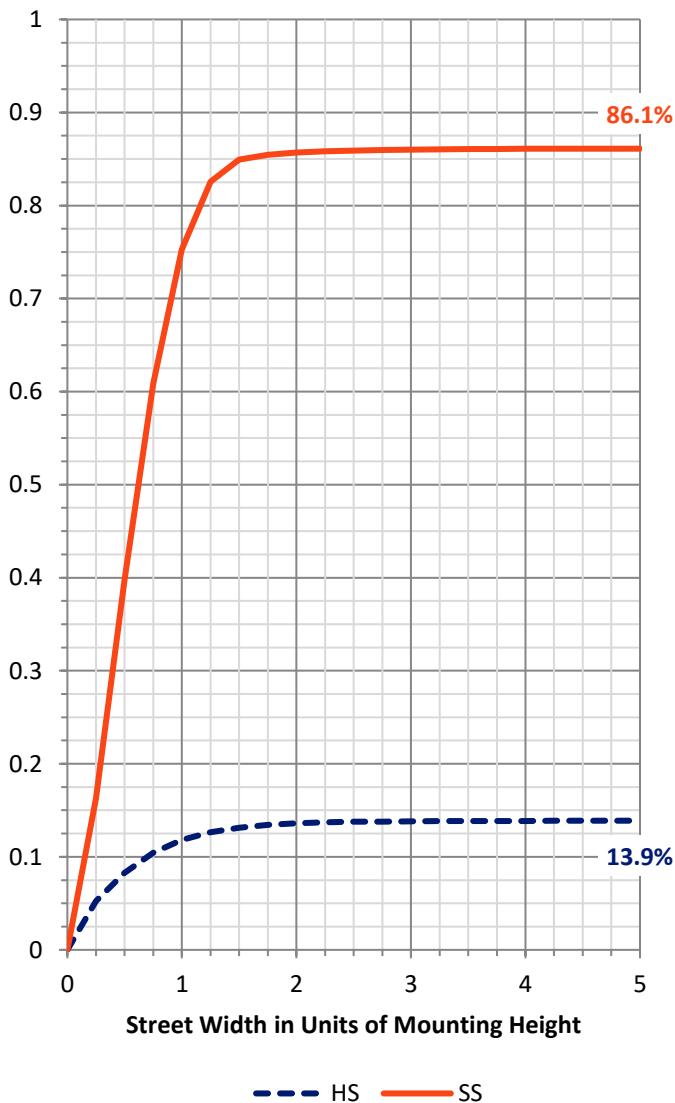
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2546.3	0.0	2546.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	15685.9	0.0	15685.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	18232.2	0.0	18232.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	1.3
10°-20°	1062.3	5.8
20°-30°	2228.4	12.2
30°-40°	3841.1	21.1
40°-50°	5613.7	30.8
50°-60°	4372.2	24.0
60°-70°	740.8	4.1
70°-80°	101.8	0.6
80°-90°	26.4	0.1
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°	18232.2	100.0
0°-180°	18232.2	100.0

Coefficient of Utilization



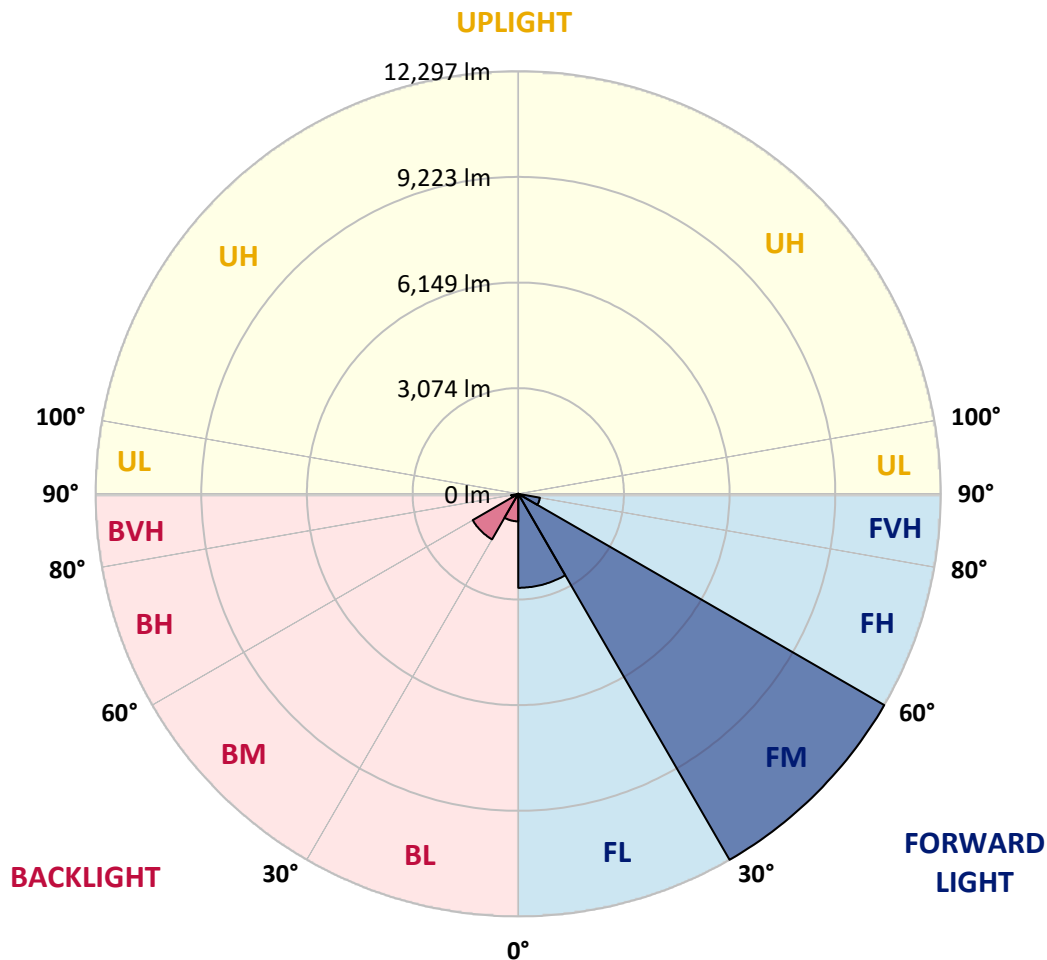
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2735.0	15.0			
FM (30°-60°)	12297.3	67.4			
FH (60°-80°)	641.4	3.5			G0/660
FVH (80°-90°)	12.2	0.1			G1/100
BL (0°-30°)	801.2	4.4	B2/1000		
BM (30°-60°)	1529.7	8.4	B2/2500		
BH (60°-80°)	201.1	1.1	B1/500		G1/500
BVH (80°-90°)	14.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1888.5	1888.5	1888.5	1888.5	1888.5	1888.5	1888.5	1888.5	1888.5	1888.5	1888.5
2.5°	2473.0	2455.0	2416.1	2344.1	2314.2	2242.2	2200.2	2119.3	2068.4	2011.4	1948.4
5°	3483.3	3390.3	3333.3	3252.4	3015.6	2868.7	2625.9	2419.1	2323.2	2218.2	2074.3
7.5°	4526.4	4466.5	4388.5	4214.7	4052.7	3747.0	3330.3	2874.7	2679.9	2500.0	2215.3
10°	5389.7	5221.8	5212.8	5083.9	4907.1	4541.4	4040.7	3474.2	3126.5	2862.7	2416.1
12.5°	5992.2	5839.3	5908.3	5893.3	5728.4	5392.7	4814.1	4064.8	3702.0	3291.3	2622.9
15°	6540.8	6477.8	6456.9	6438.8	6372.9	6124.1	5605.5	4784.2	4259.6	3765.0	2856.7
17.5°	7077.4	6915.5	6993.4	7008.4	7002.4	6777.6	6292.0	5467.6	4850.1	4265.6	3102.6
20°	7554.0	7568.9	7464.0	7443.0	7425.1	7416.1	6942.5	6145.1	5575.6	4790.2	3423.3
22.5°	8165.5	8060.6	8153.5	8093.6	7976.7	7904.7	7542.0	6744.6	6205.0	5422.7	3750.0
25°	8887.9	8971.8	8753.0	8729.0	8600.2	8351.3	8024.6	7416.1	6810.5	6010.2	4103.7
27.5°	9778.2	9631.3	9574.4	9442.4	9208.6	9103.7	8720.0	8108.5	7542.0	6627.7	4445.5
30°	10542.5	10503.6	10218.9	10063.0	9859.1	9856.2	9319.6	9046.8	8495.2	7596.0	4916.1
32.5°	11166.0	10995.2	10890.3	10782.4	10617.6	10662.5	10209.9	10065.9	9511.4	8495.2	5470.7
35°	11582.8	11459.8	11396.9	11232.1	11184.1	11384.9	11196.0	11136.1	10680.5	9760.2	6121.1
37.5°	11714.6	11753.6	11741.6	11534.8	11636.7	12179.3	12422.1	12266.2	12026.4	11094.2	6825.6
40°	11831.5	11858.5	11798.6	12041.4	12332.2	12949.6	13827.9	13570.2	13480.2	12446.1	7805.8
42.5°	11897.5	11876.5	11876.5	12296.2	12736.8	13977.8	15185.9	15015.0	14946.1	13884.9	8938.9
45°	11612.8	11408.9	11627.7	12197.3	13084.6	14484.4	16271.0	16507.8	16408.9	15596.6	10263.8
47.5°	10548.6	10674.5	10797.4	11558.8	12661.9	14328.6	16936.4	17742.9	17925.7	17035.4	11133.1
50°	8938.9	8911.9	9166.7	10125.9	11465.9	13657.1	16807.6	18099.5	18432.3	17467.1	11316.0
52.5°	6501.8	6699.7	6975.4	7928.7	9517.4	11918.5	15143.9	17179.3	17622.9	16936.4	11196.0
55°	3786.0	3567.1	4187.6	4994.0	6492.8	8989.9	12802.8	15227.9	16049.2	15971.2	10590.5
57.5°	1516.8	1468.8	1681.6	2266.2	3387.3	5572.5	9310.6	12512.0	13827.9	14628.3	9307.6
60°	665.5	650.5	764.4	923.2	1384.9	2568.9	5092.9	7781.8	9154.7	10221.8	6405.9
62.5°	479.6	473.6	530.6	587.6	731.4	1118.1	2140.3	3135.5	3908.9	4721.3	2868.7
65°	386.7	401.7	440.7	470.7	539.6	620.5	755.4	872.3	1070.1	1109.1	632.5
67.5°	314.8	326.7	362.7	395.6	407.7	335.8	347.7	305.8	305.8	272.8	218.8
70°	230.8	233.8	275.8	314.8	251.8	134.9	236.8	236.8	212.8	203.8	185.9
72.5°	170.9	173.8	206.9	194.8	98.9	83.9	173.8	191.8	173.8	164.9	149.9
75°	125.9	128.9	107.9	44.9	42.0	53.9	101.9	131.9	125.9	122.9	113.9
77.5°	24.0	18.0	15.0	21.0	30.0	44.9	65.9	81.0	83.9	90.0	83.9
80°	3.0	3.0	9.0	18.0	33.0	48.0	69.0	77.9	81.0	83.9	77.9
82.5°	0.0	3.0	9.0	18.0	33.0	44.9	60.0	69.0	74.9	77.9	74.9
85°	0.0	3.0	6.0	15.0	27.0	33.0	30.0	21.0	18.0	21.0	15.0
87.5°	0.0	0.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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°	1888.5	1888.5	1888.5	1888.5	1888.5	1888.5	1888.5	1888.5	1888.5	1888.5	1888.5
2.5°	1912.5	1900.5	1858.5	1813.6	1774.6	1792.6	1774.6	1759.6	1765.6	1759.6	1753.6
5°	2017.4	1963.5	1873.5	1834.6	1801.5	1798.6	1789.5	1786.6	1789.5	1789.5	1762.6
7.5°	2116.3	2029.4	1933.5	1891.5	1852.5	1855.6	1834.6	1834.6	1831.5	1816.6	1810.5
10°	2266.2	2149.3	2026.4	1951.5	1903.5	1894.5	1873.5	1852.5	1852.5	1852.5	1822.5
12.5°	2431.1	2284.2	2116.3	2029.4	1972.5	1927.4	1894.5	1888.5	1855.6	1849.5	1834.6
15°	2575.0	2389.1	2176.3	2056.4	1984.4	1924.5	1873.5	1840.5	1825.6	1816.6	1804.6
17.5°	2715.8	2479.1	2209.2	2056.4	1978.4	1909.5	1855.6	1825.6	1789.5	1795.6	1771.6
20°	2904.7	2575.0	2218.2	2017.4	1921.5	1855.6	1783.6	1768.6	1747.6	1729.6	1735.6
22.5°	3087.5	2643.9	2191.2	1969.4	1831.5	1753.6	1717.7	1699.7	1690.7	1675.7	1654.7
25°	3252.4	2718.8	2149.3	1882.5	1735.6	1678.7	1645.7	1642.7	1621.7	1621.7	1582.8
27.5°	3420.3	2745.8	2077.4	1780.5	1651.7	1618.7	1603.7	1597.7	1588.7	1567.7	1540.8
30°	3612.1	2754.8	1972.5	1675.7	1576.7	1540.8	1561.8	1576.7	1537.7	1498.8	1510.8
32.5°	3771.0	2733.8	1846.5	1576.7	1522.8	1504.8	1546.7	1561.8	1516.8	1474.9	1453.9
35°	3962.8	2682.9	1723.6	1498.8	1468.8	1504.8	1540.8	1540.8	1450.8	1399.8	1387.9
37.5°	4253.6	2625.9	1609.7	1432.9	1411.9	1486.8	1534.8	1501.8	1360.9	1298.0	1282.9
40°	4565.4	2589.9	1498.8	1366.9	1381.9	1456.8	1483.8	1381.9	1238.0	1199.0	1187.0
42.5°	5018.0	2518.0	1399.8	1310.0	1354.9	1414.9	1414.9	1232.1	1178.0	1157.0	1154.1
45°	5581.5	2467.0	1312.9	1262.0	1316.0	1330.9	1282.9	1154.1	1115.1	1109.1	1112.1
47.5°	5857.3	2368.1	1223.0	1205.0	1244.0	1247.0	1121.1	1091.1	1058.1	1049.1	1043.2
50°	5815.3	2191.2	1106.1	1130.1	1184.1	1154.1	1022.2	1028.2	998.2	995.2	980.2
52.5°	5521.6	1912.5	989.2	1046.2	1106.1	1019.2	941.2	935.2	935.2	896.3	881.3
55°	4895.1	1540.8	848.3	920.3	992.2	857.3	836.3	830.4	815.3	779.4	770.4
57.5°	3875.9	1130.1	638.5	716.4	842.4	728.4	725.4	698.4	659.4	632.5	632.5
60°	2305.2	650.5	401.7	437.6	557.6	590.5	656.5	644.5	578.6	536.6	524.6
62.5°	1052.2	335.8	254.8	260.8	299.7	383.7	515.6	596.5	503.6	431.7	425.6
65°	353.7	248.8	209.8	200.8	206.9	230.8	308.7	422.7	401.7	332.7	320.7
67.5°	215.8	221.8	197.9	182.8	182.8	179.9	176.9	191.8	236.8	230.8	233.8
70°	185.9	203.8	182.8	164.9	158.9	149.9	125.9	104.9	90.0	104.9	110.9
72.5°	149.9	161.8	155.9	140.9	125.9	113.9	90.0	69.0	51.0	44.9	44.9
75°	110.9	119.9	125.9	107.9	95.9	81.0	65.9	44.9	27.0	18.0	18.0
77.5°	81.0	90.0	92.9	83.9	72.0	56.9	42.0	30.0	15.0	6.0	6.0
80°	69.0	81.0	90.0	83.9	74.9	53.9	39.0	21.0	12.0	3.0	3.0
82.5°	65.9	81.0	90.0	81.0	72.0	51.0	39.0	24.0	9.0	3.0	3.0
85°	15.0	21.0	27.0	33.0	39.0	39.0	30.0	18.0	9.0	3.0	3.0
87.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	3.0	3.0	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)