

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: P382826

Luminaire Tested: **GLEON-SA2A-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9112.4 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

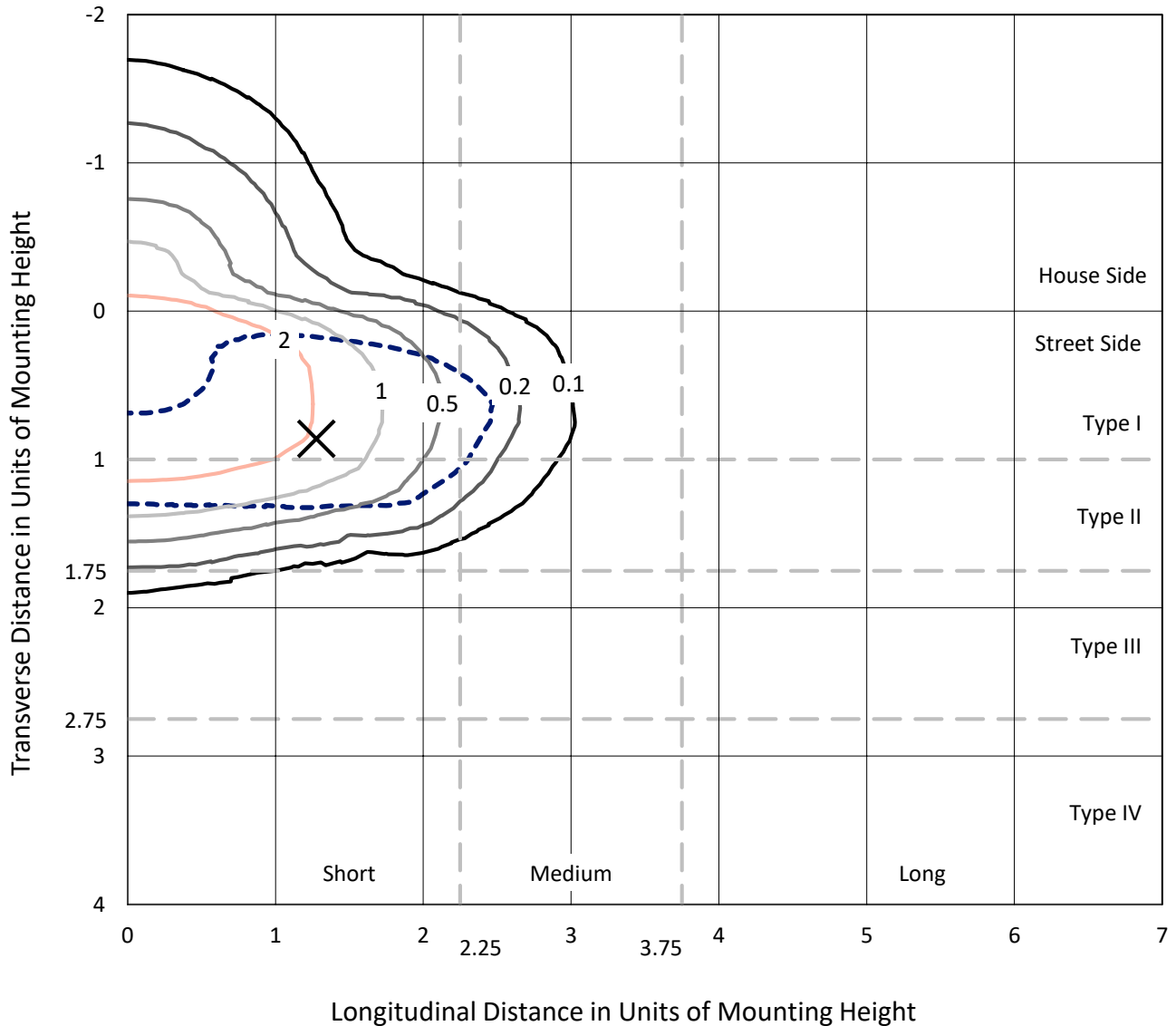
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

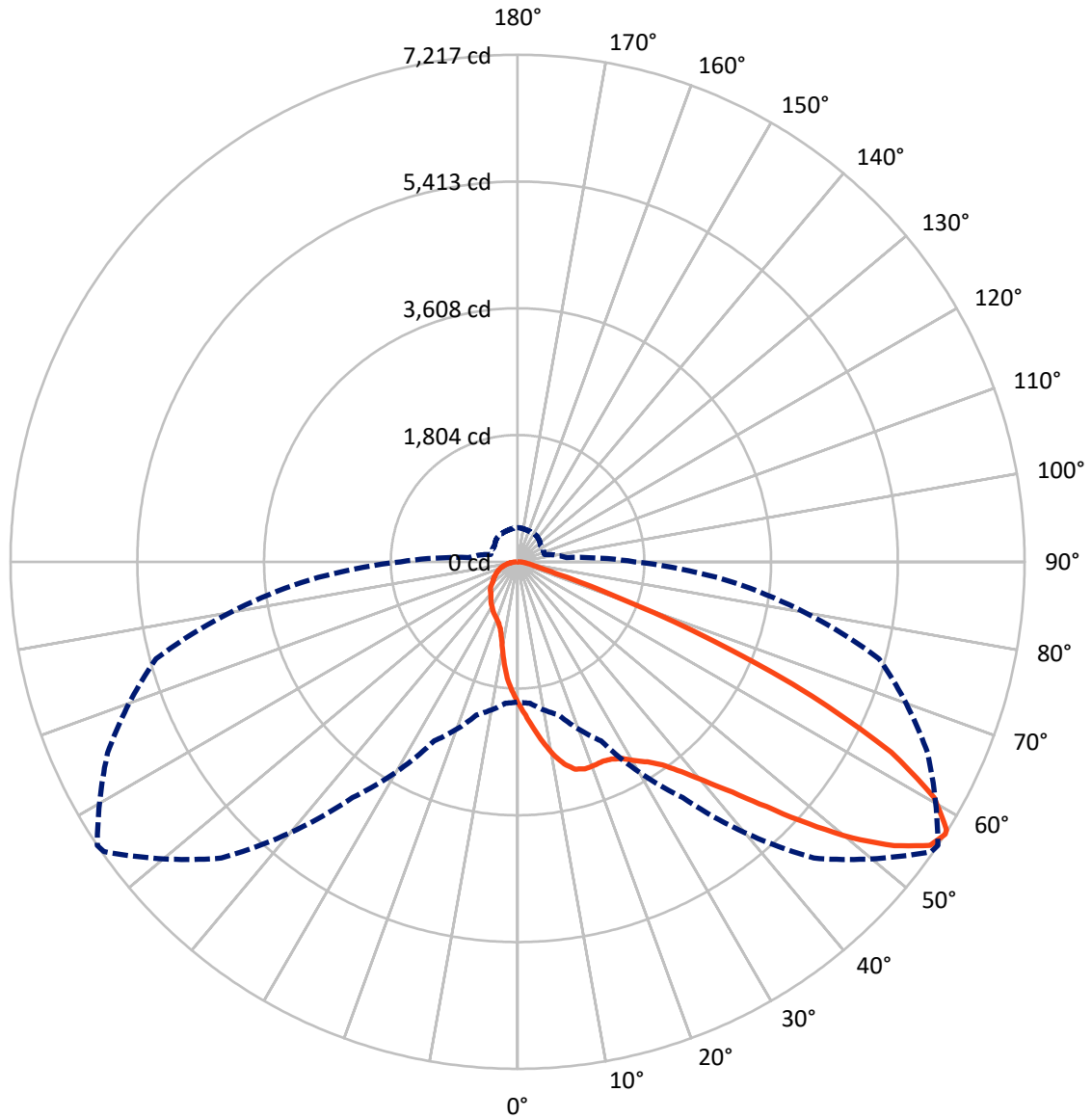
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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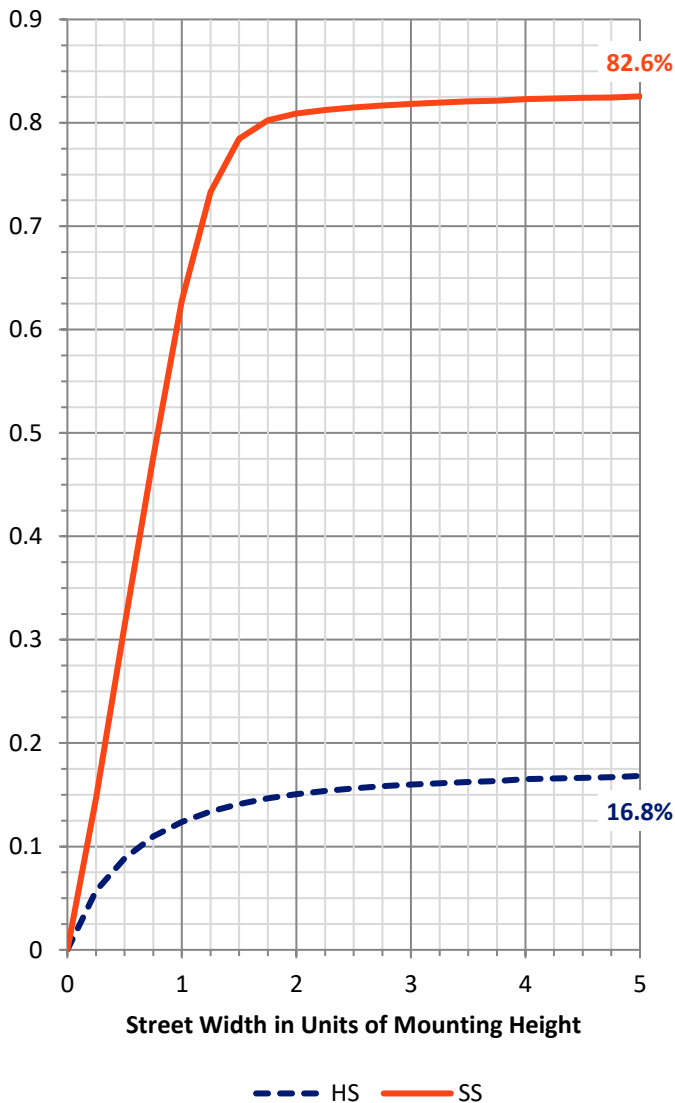
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1570.8	0.0	1570.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	7541.6	0.0	7541.6
	% Fixture	82.8	0.0	82.8
Total	Lumens	9112.4	0.0	9112.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.1	2.1
10°-20°	545.9	6.0
20°-30°	889.1	9.8
30°-40°	1329.1	14.6
40°-50°	2015.9	22.1
50°-60°	2259.5	24.8
60°-70°	1334.6	14.6
70°-80°	437.2	4.8
80°-90°	108.0	1.2
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°	9112.4	100.0
0°-180°	9112.4	100.0

Coefficient of Utilization

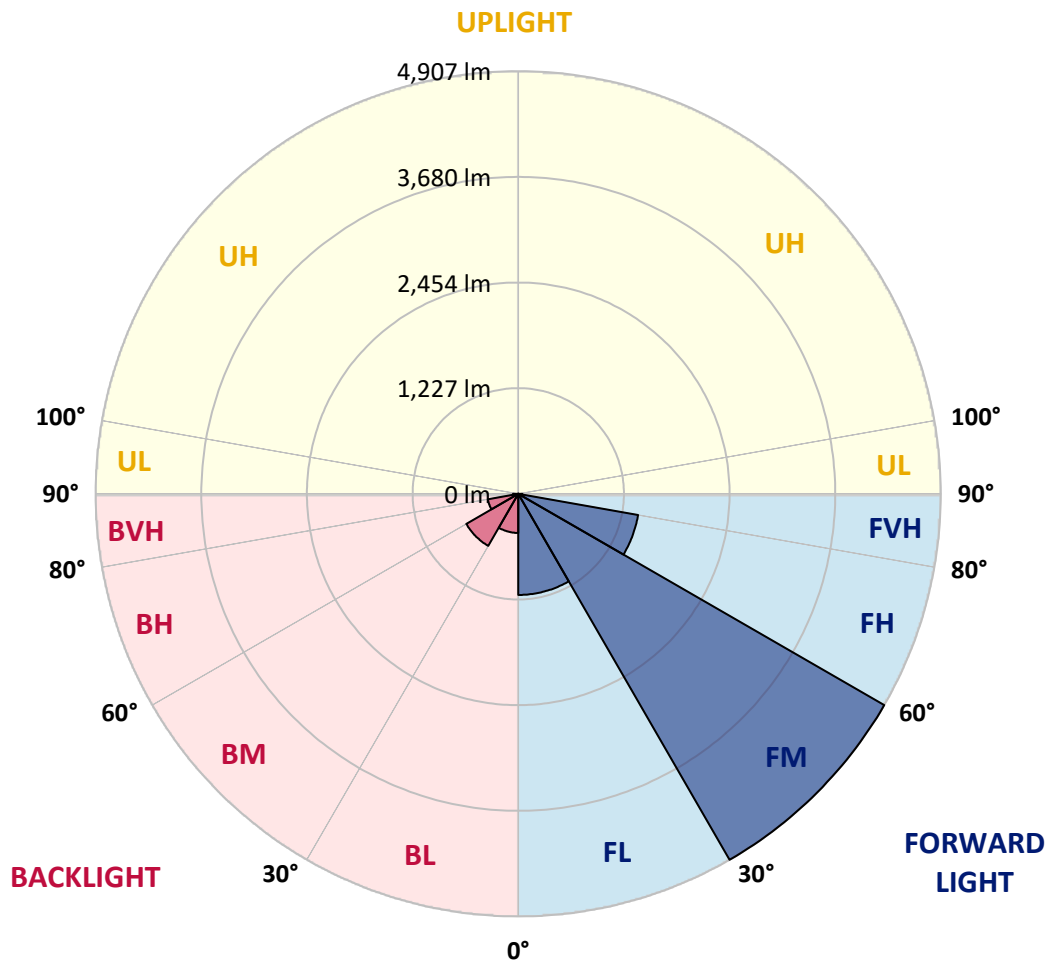


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.8	12.9			
FM (30°-60°)	4907.3	53.9			
FH (60°-80°)	1412.9	15.5			G1/1800
FVH (80°-90°)	47.6	0.5			G1/100
BL (0°-30°)	454.2	5.0	B1/500		
BM (30°-60°)	697.2	7.7	B1/1000		
BH (60°-80°)	358.9	3.9	B1/500		G1/500
BVH (80°-90°)	60.5	0.7			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2
2.5°	2320.9	2342.1	2332.7	2300.2	2275.1	2239.7	2200.2	2188.4	2146.8	2100.1	2044.0
5°	2688.2	2677.5	2662.2	2611.4	2557.9	2495.6	2396.6	2380.9	2288.3	2182.7	2071.2
7.5°	2897.4	2896.5	2887.3	2857.6	2808.7	2727.3	2608.0	2589.5	2449.5	2279.8	2107.0
10°	2867.0	2864.8	2879.8	2910.8	2925.5	2908.7	2808.2	2789.6	2617.7	2387.2	2148.2
12.5°	2694.4	2695.7	2719.8	2785.0	2873.5	2980.0	2963.7	2954.7	2792.1	2508.8	2198.4
15°	2560.1	2562.9	2582.0	2638.7	2743.3	2936.5	3058.4	3061.4	2960.9	2642.8	2257.0
17.5°	2501.2	2507.2	2515.9	2555.7	2651.6	2849.8	3080.9	3097.8	3108.8	2781.8	2313.3
20°	2520.0	2525.6	2528.1	2553.5	2632.1	2797.2	3065.3	3095.6	3222.1	2912.7	2369.7
22.5°	2604.2	2607.7	2609.3	2615.8	2676.9	2812.2	3054.9	3086.9	3304.2	3030.1	2412.2
25°	2743.9	2741.5	2731.4	2722.9	2764.0	2871.7	3078.7	3109.0	3370.9	3136.6	2440.2
27.5°	2911.2	2908.0	2888.6	2865.4	2888.9	2964.4	3147.2	3171.4	3430.7	3236.2	2454.3
30°	3111.8	3103.7	3067.1	3039.5	3048.6	3103.5	3260.3	3282.2	3523.0	3349.3	2468.0
32.5°	3343.9	3335.1	3282.2	3236.5	3236.5	3282.2	3376.8	3394.9	3601.4	3477.0	2490.2
35°	3634.5	3623.6	3554.7	3477.9	3456.3	3479.5	3535.6	3548.5	3742.3	3638.0	2530.6
37.5°	3977.1	3962.4	3873.2	3770.4	3723.2	3721.9	3762.3	3788.6	3967.5	3849.3	2599.2
40°	4320.7	4310.4	4232.4	4151.5	4058.8	4029.1	4091.5	4099.6	4261.8	4111.8	2687.0
42.5°	4586.2	4584.3	4570.0	4580.6	4485.7	4425.6	4474.4	4481.0	4621.3	4395.9	2780.2
45°	4726.5	4729.7	4799.5	4954.2	4989.3	4945.4	4969.5	4971.4	5032.2	4682.3	2865.7
47.5°	4614.1	4630.4	4807.0	5153.0	5440.2	5585.8	5545.8	5569.0	5430.5	4928.5	2932.8
50°	4176.0	4196.1	4496.7	5064.5	5650.7	6205.6	6184.6	6179.3	5751.8	5108.9	2969.1
52.5°	3633.3	3649.0	3896.9	4603.8	5496.3	6548.2	6740.8	6713.2	6037.5	5243.9	2975.9
55°	2806.8	2831.3	3069.0	3684.4	4871.8	6417.2	7149.8	7125.0	6297.6	5314.7	2967.8
57°	1995.5	2021.2	2257.2	2811.9	4098.3	5964.1	7190.5	7216.8	6438.3	5326.6	2976.9
57.5°	1780.7	1806.9	2040.8	2579.5	3857.2	5800.4	7155.4	7199.3	6463.6	5324.6	2981.9
60°	896.6	906.6	1055.6	1439.9	2438.2	4689.2	6697.9	6810.9	6486.5	5232.6	3003.5
62.5°	557.4	550.3	545.5	663.3	1186.2	3109.7	5753.7	5971.3	6049.0	5009.6	2951.2
65°	490.1	476.7	425.0	415.6	523.9	1510.4	4332.9	4603.8	5114.2	4658.3	2826.6
67.5°	460.4	447.2	388.9	353.9	354.2	598.8	2690.0	2995.1	3984.0	4064.2	2532.5
70°	429.6	417.8	363.3	321.9	301.5	331.6	1237.7	1469.1	2597.1	3194.6	2116.7
72.5°	390.2	382.0	330.4	287.8	266.1	248.4	473.8	559.6	1503.5	2145.4	1470.0
75°	348.9	341.3	297.2	256.5	230.2	195.4	266.8	287.5	763.8	1097.6	723.7
77.5°	303.5	299.0	264.3	226.7	205.8	161.9	188.8	198.9	327.5	470.7	362.9
80°	241.5	249.9	231.1	202.0	182.6	129.7	133.7	140.3	190.7	229.9	206.1
82.5°	157.2	172.0	181.0	164.1	150.4	102.1	96.1	98.9	124.4	140.3	89.5
85°	65.5	73.6	119.0	107.4	99.9	74.5	64.6	65.8	77.0	79.8	36.6
87.5°	29.2	31.0	52.3	49.2	42.3	25.7	27.6	30.1	41.0	38.8	14.1
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°	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2
2.5°	2023.0	1996.7	1951.6	1901.8	1861.1	1828.5	1795.7	1773.1	1746.8	1732.7	1725.5
5°	2024.6	1972.9	1878.0	1780.7	1693.6	1614.0	1538.3	1480.0	1425.5	1396.1	1387.9
7.5°	2031.1	1953.5	1800.0	1639.7	1485.0	1343.8	1234.8	1166.5	1117.4	1095.4	1089.2
10°	2036.5	1930.6	1703.6	1466.3	1255.8	1112.6	1028.1	989.9	973.0	970.2	967.3
12.5°	2049.0	1907.2	1602.2	1285.3	1077.6	978.6	949.2	946.6	951.4	958.3	958.3
15°	2068.8	1884.0	1486.3	1129.9	964.2	929.5	935.4	949.2	962.0	972.7	974.2
17.5°	2083.1	1855.5	1361.6	1005.5	903.8	913.2	934.4	953.9	967.0	977.4	978.3
20°	2093.5	1811.3	1228.5	910.7	869.0	898.1	924.7	942.0	951.1	961.4	962.9
22.5°	2088.2	1752.1	1110.5	842.7	840.8	876.2	901.6	922.2	915.3	905.4	911.9
25°	2062.4	1670.7	988.9	792.0	811.1	846.8	878.1	864.3	841.2	836.8	839.2
27.5°	2016.8	1566.8	876.5	745.1	776.6	819.6	817.6	803.9	795.7	790.1	793.6
30°	1967.6	1454.0	778.2	704.0	738.4	773.8	766.6	766.3	758.2	749.1	753.4
32.5°	1919.1	1340.7	700.2	670.2	709.7	714.3	730.0	734.7	718.7	699.6	698.4
35°	1876.8	1233.6	641.0	639.5	674.9	675.5	698.4	691.8	652.0	632.2	632.2
37.5°	1845.1	1126.7	595.9	611.9	629.2	645.5	657.0	629.7	623.2	612.2	611.9
40°	1831.3	1032.8	567.8	591.0	596.8	617.5	587.8	598.4	601.6	595.9	595.9
42.5°	1817.0	951.1	543.4	575.0	574.0	571.2	556.1	569.9	582.5	582.8	581.8
45°	1802.5	880.6	521.8	540.9	554.0	523.6	526.4	541.1	558.6	565.0	565.0
47.5°	1786.6	824.9	502.0	504.8	525.2	504.8	502.7	513.9	534.5	544.6	546.8
50°	1751.5	774.8	479.5	473.2	478.8	485.7	487.6	492.9	515.8	531.7	535.5
52.5°	1703.0	730.0	450.7	444.1	444.1	470.1	478.8	480.4	499.8	518.9	522.7
55°	1662.5	701.5	420.9	419.7	418.4	453.5	468.5	471.0	484.5	499.5	501.4
57°	1665.4	699.3	398.1	399.3	399.0	436.5	458.8	464.1	471.0	483.8	486.0
57.5°	1666.9	700.9	393.0	393.7	393.3	431.9	456.0	462.0	467.3	480.7	482.9
60°	1690.5	704.9	372.6	365.7	367.3	406.8	440.0	447.5	451.0	468.8	471.6
62.5°	1655.6	686.7	356.4	339.7	339.7	380.4	417.8	429.6	434.9	459.1	463.8
65°	1554.8	635.7	337.3	310.3	313.5	354.2	391.2	410.5	418.7	448.7	453.8
67.5°	1399.2	576.5	316.9	284.0	287.2	326.6	363.6	384.5	397.4	437.5	441.6
70°	1196.6	504.2	289.3	256.2	259.9	296.6	331.0	354.8	373.9	426.8	428.0
72.5°	882.2	413.3	250.9	225.4	229.5	261.5	298.1	325.7	351.4	400.2	399.6
75°	524.6	323.2	208.3	194.5	197.3	227.0	268.4	301.9	340.4	389.9	395.8
77.5°	318.2	243.3	169.7	162.8	166.3	196.6	247.0	282.8	335.7	367.7	365.7
80°	192.3	173.8	135.6	131.3	134.7	168.1	228.6	268.4	293.4	314.1	314.1
82.5°	100.5	106.2	99.6	96.1	100.8	136.6	207.9	234.3	259.3	222.6	207.9
85°	41.0	55.4	60.5	60.1	63.0	94.6	179.4	200.5	167.2	158.7	162.6
87.5°	13.8	23.5	29.4	25.3	26.6	59.5	124.4	96.8	115.0	80.2	76.1
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)