

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: P317546

Luminaire Tested: **GLEON-SA2A-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7303 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

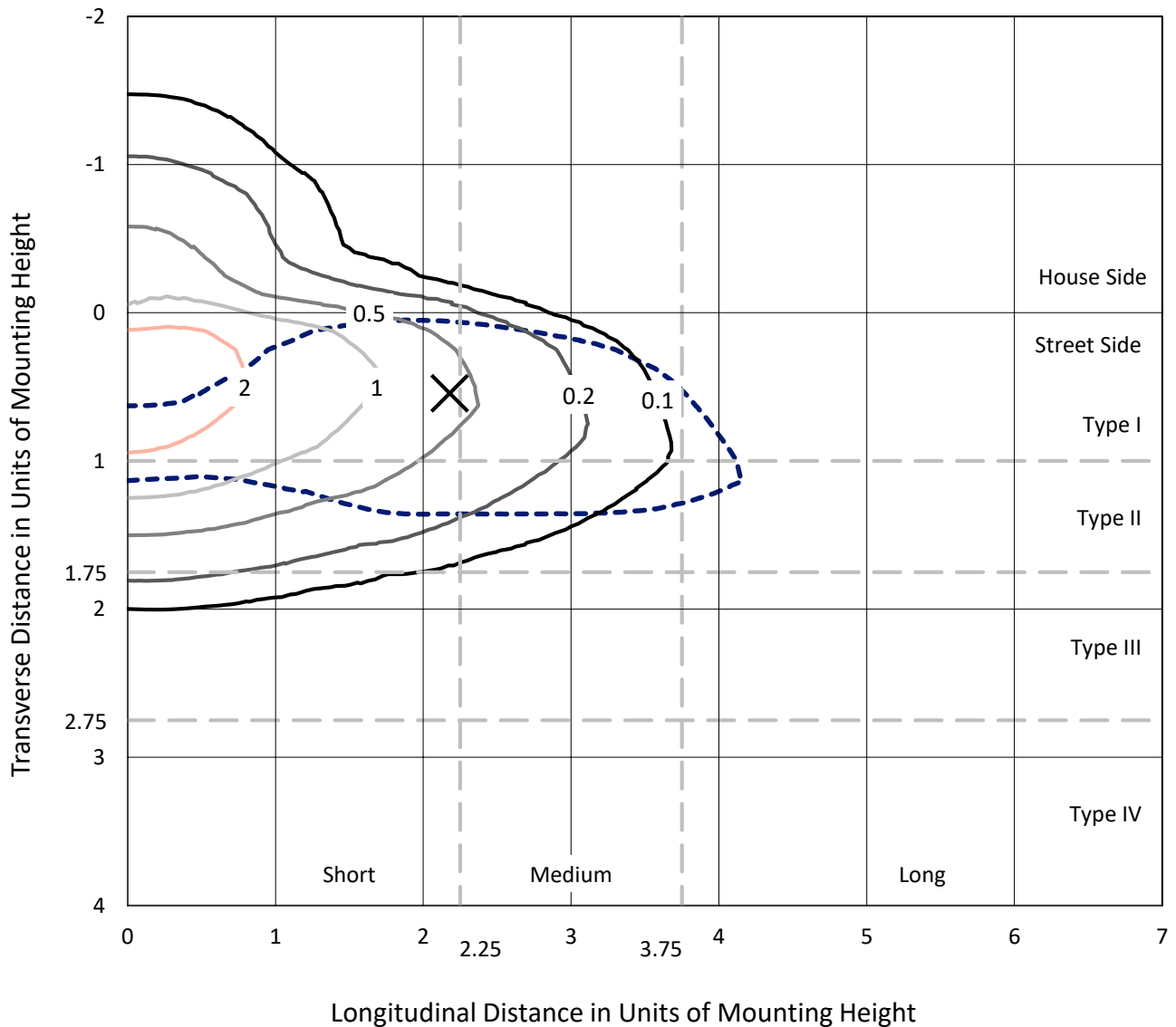
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA2A-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

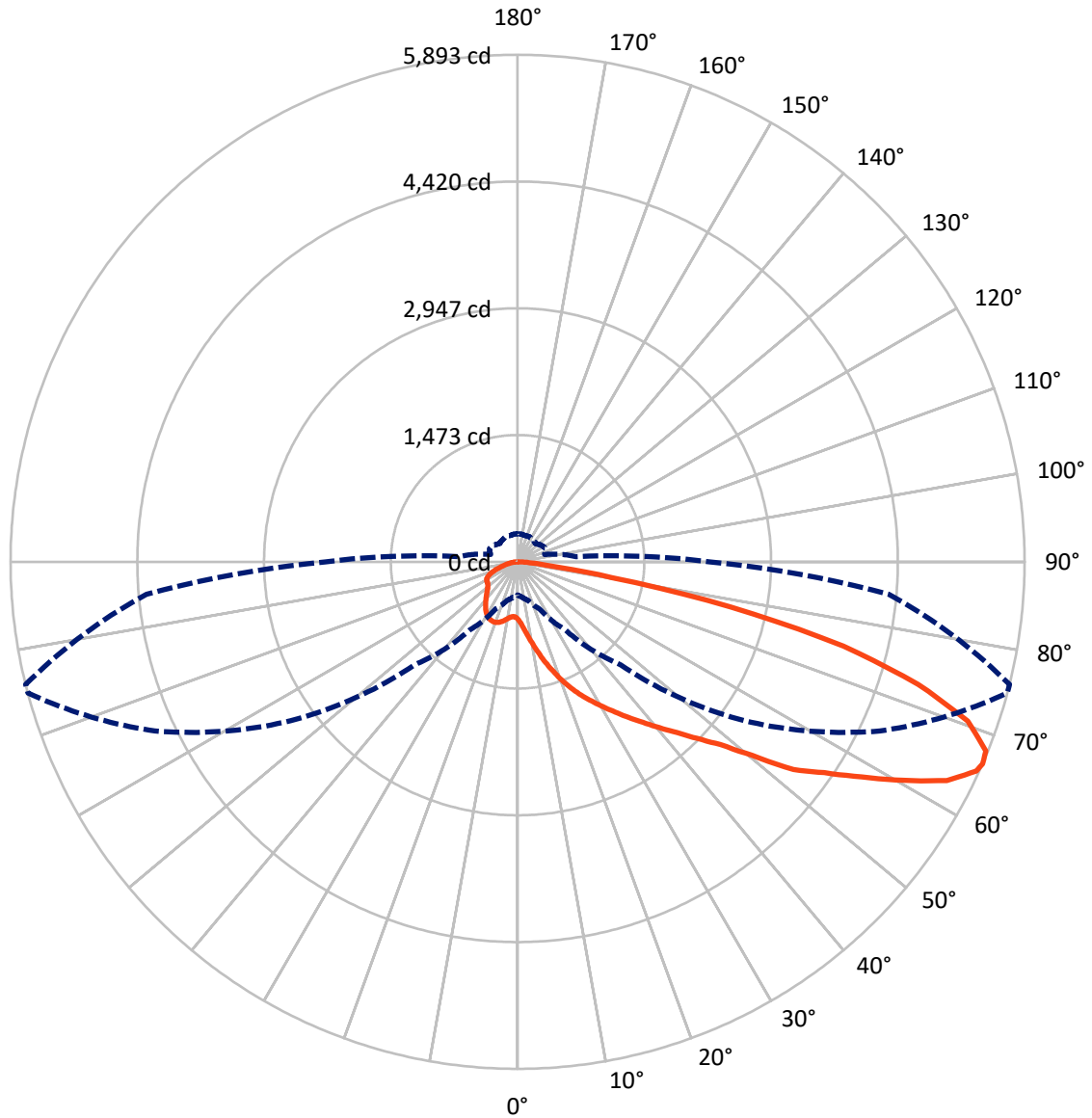
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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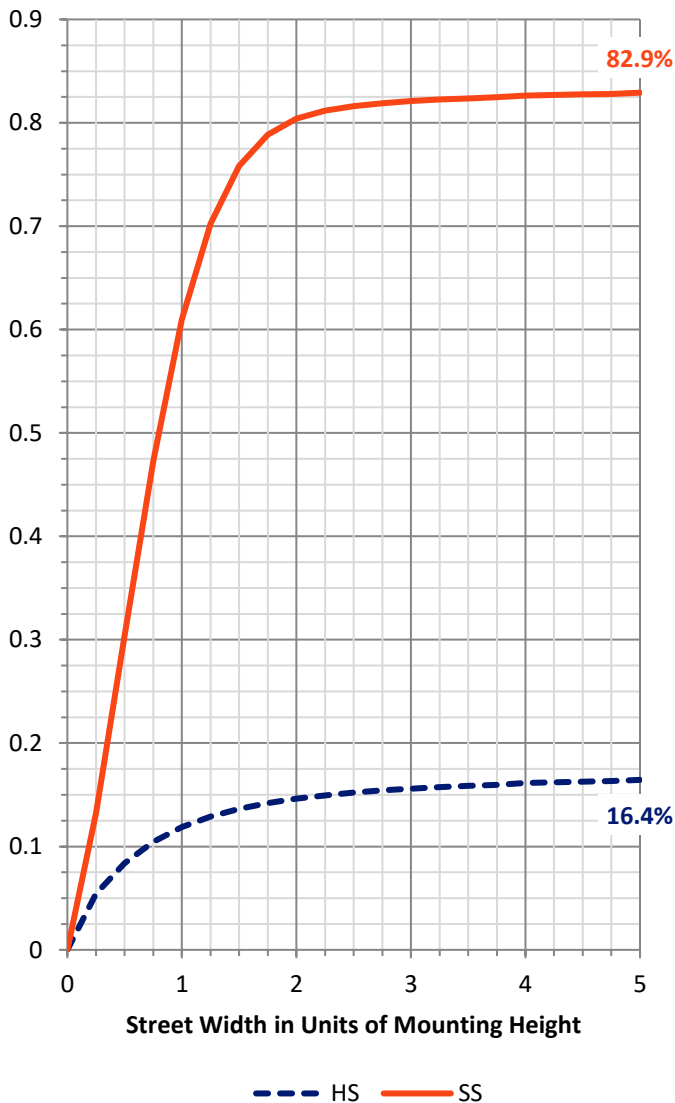
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1228.9	0.0	1228.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	6074.1	0.0	6074.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	7303.0	0.0	7303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	1.1
10°-20°	318.5	4.4
20°-30°	618.9	8.5
30°-40°	1010.2	13.8
40°-50°	1380.1	18.9
50°-60°	1607.6	22.0
60°-70°	1441.2	19.7
70°-80°	728.3	10.0
80°-90°	117.6	1.6
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°	7303.0	100.0
0°-180°	7303.0	100.0

Coefficient of Utilization

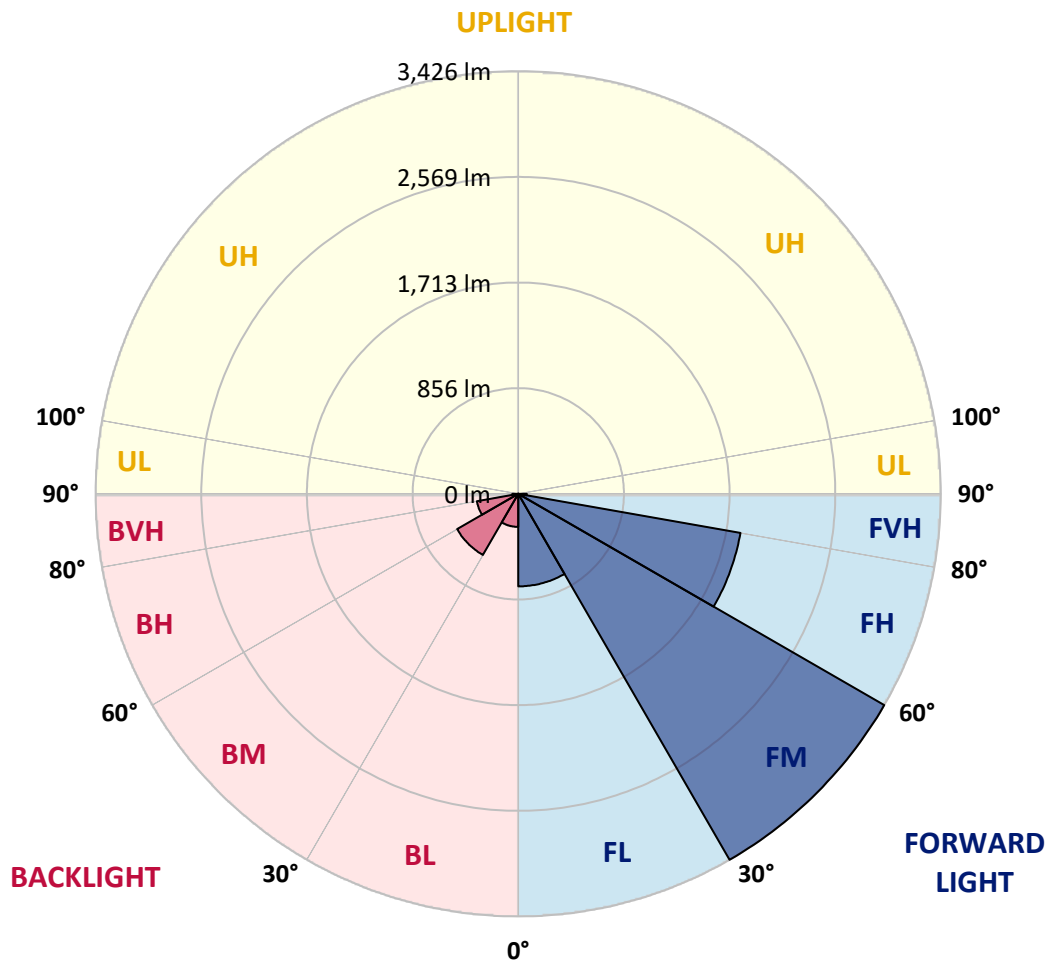


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 CATALOG NUMBER: GLEON-SA2A-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.0	10.3			
FM (30°-60°)	3425.6	46.9			
FH (60°-80°)	1829.1	25.0			G2/5000
FVH (80°-90°)	69.5	1.0			G1/100
BL (0°-30°)	268.0	3.7	B1/500		
BM (30°-60°)	572.2	7.8	B1/1000		
BH (60°-80°)	340.4	4.7	B1/500		G1/500
BVH (80°-90°)	48.2	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	666.9	666.9	666.9	666.9	666.9	666.9	666.9	666.9	666.9	666.9	666.9
2.5°	885.4	872.0	870.7	851.1	846.7	809.2	781.7	753.0	720.2	713.8	688.0
5°	1137.2	1136.0	1118.9	1086.9	1061.9	997.9	934.7	867.8	794.4	782.5	724.4
7.5°	1363.9	1361.9	1348.7	1314.3	1278.1	1199.5	1109.2	1006.6	887.6	870.0	773.8
10°	1535.9	1535.2	1530.7	1505.4	1474.7	1399.3	1299.6	1159.6	995.9	971.9	835.5
12.5°	1668.8	1670.3	1673.3	1664.3	1649.7	1585.5	1483.4	1321.7	1111.5	1087.7	904.2
15°	1758.8	1763.3	1778.6	1791.3	1799.0	1759.6	1660.6	1487.6	1240.9	1212.4	980.3
17.5°	1804.2	1809.1	1835.7	1873.8	1909.1	1905.1	1826.5	1645.8	1365.1	1337.6	1062.1
20°	1843.4	1847.1	1876.8	1922.7	1984.9	2012.4	1968.3	1798.0	1501.2	1468.5	1148.9
22.5°	1956.9	1961.6	1970.5	1996.6	2051.6	2102.2	2080.9	1942.0	1625.9	1595.4	1231.2
25°	2176.1	2181.8	2162.4	2140.4	2150.8	2186.0	2190.0	2073.4	1752.4	1717.9	1319.7
27.5°	2440.1	2448.3	2415.3	2358.5	2309.0	2295.3	2290.6	2181.0	1873.1	1833.2	1407.2
30°	2698.7	2712.8	2669.9	2596.3	2505.3	2441.4	2394.0	2286.4	1992.1	1953.9	1489.8
32.5°	2951.3	2945.6	2883.4	2811.5	2704.9	2624.8	2510.3	2399.5	2126.0	2082.1	1571.9
35°	3124.4	3126.4	3068.6	2983.3	2881.7	2820.2	2666.0	2521.4	2262.6	2222.2	1665.1
37.5°	3271.7	3262.5	3197.0	3117.5	3029.9	3003.7	2848.2	2655.8	2410.6	2366.5	1764.3
40°	3320.8	3310.1	3267.2	3209.9	3139.8	3137.5	3049.3	2808.0	2578.0	2534.3	1876.1
42.5°	3291.0	3277.4	3259.8	3244.1	3222.6	3232.5	3238.2	2986.6	2761.9	2713.1	2005.5
45°	3181.2	3160.6	3173.0	3207.0	3253.8	3309.9	3408.8	3184.2	2968.0	2927.0	2157.5
47.5°	3012.3	2993.7	3032.4	3105.1	3232.5	3374.3	3570.2	3402.3	3213.9	3173.2	2373.9
50°	2774.8	2780.3	2835.6	2967.7	3160.3	3404.1	3769.0	3691.2	3571.4	3533.5	2669.2
52.5°	2385.1	2386.1	2541.8	2758.7	3032.4	3388.7	3879.3	4060.3	4059.6	4013.7	2950.4
55°	2023.1	2045.2	2168.4	2456.7	2825.1	3327.2	3956.4	4239.8	4380.2	4326.4	3212.4
57.5°	1669.6	1682.4	1799.2	2088.8	2529.4	3163.3	4035.5	4455.3	4749.6	4715.6	3538.2
60°	1267.4	1287.2	1408.0	1675.5	2151.0	2872.5	4043.0	4680.2	5191.1	5156.9	3901.9
62.5°	822.6	856.8	969.9	1220.6	1693.4	2454.2	3870.4	4827.2	5609.6	5597.5	4224.7
65°	472.8	498.6	577.2	770.6	1168.2	1929.1	3460.1	4770.6	5867.2	5860.3	4345.4
66°	386.3	402.4	462.6	602.2	963.9	1694.1	3221.6	4651.4	5892.8	5893.0	4331.6
67.5°	308.9	316.1	343.1	431.1	711.3	1342.8	2795.4	4388.3	5861.0	5869.7	4242.1
70°	255.6	259.3	267.8	289.1	388.3	809.7	1984.2	3704.8	5542.4	5549.1	3892.7
72.5°	229.3	231.6	234.8	237.8	274.0	452.5	1211.9	2963.7	4859.4	4868.1	3360.4
75°	207.8	209.0	208.5	208.8	229.8	288.3	626.3	2212.8	3929.2	3911.8	2574.2
77.5°	182.5	183.7	181.2	181.7	203.3	221.6	311.6	1549.1	2651.6	2529.1	1450.4
80°	154.2	155.2	154.2	155.9	177.0	167.4	181.2	871.5	1172.5	1109.0	515.7
82.5°	116.5	120.7	123.7	130.7	145.8	119.0	121.2	339.4	357.0	339.9	158.2
85°	51.1	62.2	93.2	99.9	109.6	71.4	79.6	138.3	145.3	140.8	57.5
87.5°	13.4	14.6	46.1	58.0	60.7	32.2	41.4	63.0	66.4	63.0	19.1
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°	666.9	666.9	666.9	666.9	666.9	666.9	666.9	666.9	666.9	666.9	666.9
2.5°	674.4	662.2	640.4	621.1	606.4	596.5	586.6	581.6	578.7	575.7	576.2
5°	695.9	671.4	634.0	607.4	592.5	583.1	578.2	576.2	574.9	572.0	572.0
7.5°	728.4	693.7	642.1	614.9	603.2	596.0	593.0	592.1	590.6	587.1	587.6
10°	769.3	720.7	659.2	632.7	622.1	614.1	609.9	608.4	605.7	601.7	602.2
12.5°	817.4	754.2	681.8	654.0	641.1	630.5	623.5	619.3	614.6	609.4	609.7
15°	870.0	790.6	706.1	673.1	655.5	640.6	629.5	622.3	614.9	608.4	608.2
17.5°	923.3	825.9	724.7	683.5	659.7	640.2	625.0	613.9	604.7	596.8	596.0
20°	980.8	857.6	735.1	682.5	651.8	628.5	608.4	594.5	584.4	576.4	575.2
22.5°	1039.3	887.3	736.8	672.4	634.2	605.7	584.6	569.2	558.8	550.6	547.7
25°	1092.9	910.4	729.7	652.8	609.7	578.9	558.3	542.7	534.3	524.6	521.6
27.5°	1141.7	926.5	715.3	627.8	582.1	551.9	532.6	519.2	510.0	502.6	500.1
30°	1185.6	935.2	691.7	598.0	553.9	526.4	510.0	500.8	492.9	483.5	481.7
32.5°	1227.2	935.2	661.5	565.5	525.9	503.8	494.1	488.4	479.5	470.3	467.8
35°	1268.9	929.5	625.8	531.6	500.1	487.7	487.2	480.5	466.9	454.5	451.2
37.5°	1312.8	917.8	585.6	499.8	479.0	480.5	484.7	469.8	450.5	432.9	428.2
40°	1362.4	901.7	544.0	472.3	461.4	477.3	478.0	454.5	416.8	400.7	396.4
42.5°	1420.6	885.6	505.3	448.0	447.5	467.6	465.4	421.2	398.7	390.5	388.3
45°	1497.2	876.4	468.6	425.0	436.6	452.0	443.8	402.9	393.5	388.8	386.8
47.5°	1618.0	881.1	434.9	406.6	425.7	436.4	403.6	395.4	388.8	383.1	381.1
50°	1769.2	878.4	407.6	394.0	413.3	420.0	385.5	385.8	382.3	375.9	372.9
52.5°	1883.0	857.1	390.0	386.8	402.4	391.0	374.1	376.4	374.6	365.2	362.0
55°	1992.9	838.7	381.1	384.0	394.5	354.8	360.7	366.2	364.5	355.3	353.8
57.5°	2129.5	835.3	375.6	384.8	387.8	336.7	347.8	355.0	353.8	349.8	349.1
60°	2296.8	836.3	370.7	386.0	380.3	323.3	335.7	344.9	345.6	344.9	344.4
62.5°	2388.8	809.2	358.3	382.6	367.2	311.6	323.1	336.4	336.7	338.2	337.9
65°	2310.7	728.4	335.2	370.4	345.1	302.0	312.1	326.8	323.1	329.7	329.7
66°	2234.8	681.8	323.8	362.5	335.7	298.3	308.7	321.8	317.1	326.3	326.3
67.5°	2079.9	603.2	303.2	345.6	322.3	293.1	304.7	313.6	307.2	320.8	319.8
70°	1796.7	466.6	261.8	307.4	300.2	285.4	299.3	297.3	287.8	308.7	304.7
72.5°	1514.8	354.5	210.2	257.4	266.8	275.7	291.6	276.4	264.5	279.2	270.5
75°	1175.4	266.5	166.1	200.1	225.4	260.6	282.4	252.4	235.3	233.8	229.1
77.5°	635.4	183.0	131.7	152.7	179.0	241.7	276.2	226.6	200.8	194.9	191.2
80°	251.6	119.0	95.7	115.8	125.2	214.5	261.3	196.6	165.6	159.7	154.0
82.5°	103.9	70.4	61.7	77.6	81.6	183.5	234.5	161.2	127.9	177.0	187.9
85°	44.6	38.7	36.7	40.2	46.1	128.7	186.7	123.0	138.1	123.2	97.9
87.5°	13.4	16.4	15.6	15.4	16.9	30.7	99.4	68.4	101.4	38.4	28.8
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)