

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: P382785

Luminaire Tested: **GLEON-SA1C-735-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382785  
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-SA1C-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7186.9 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

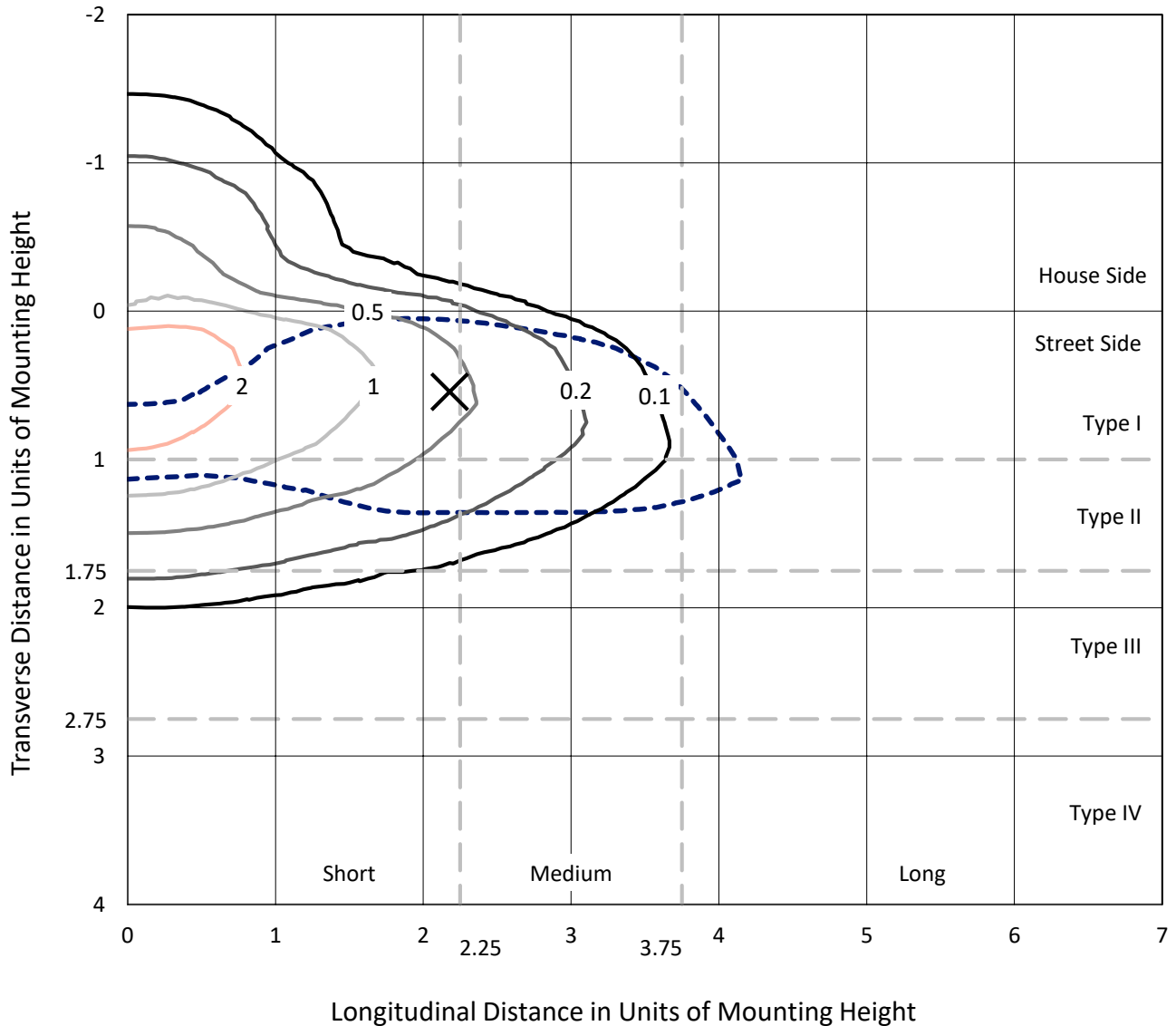
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

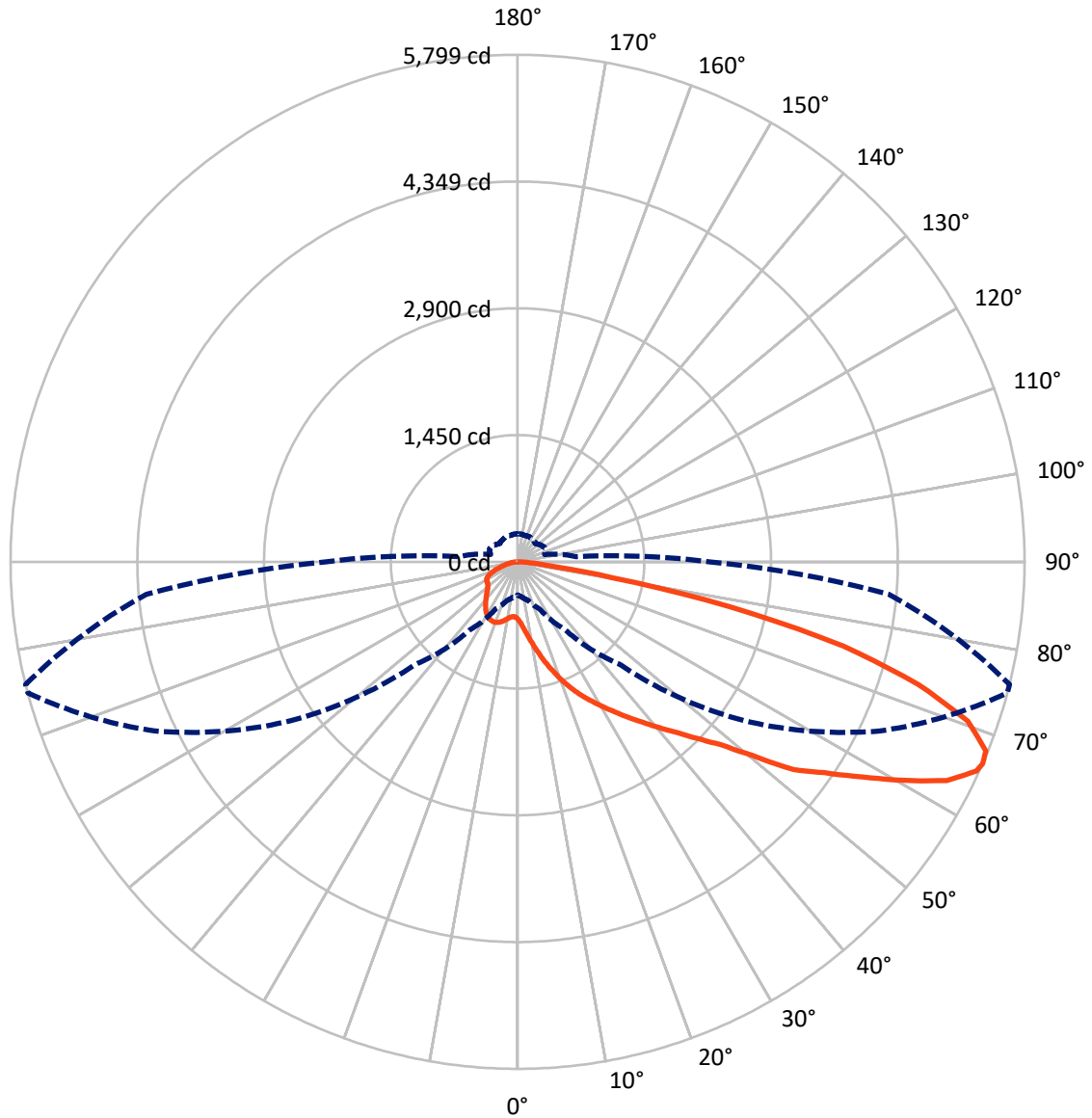
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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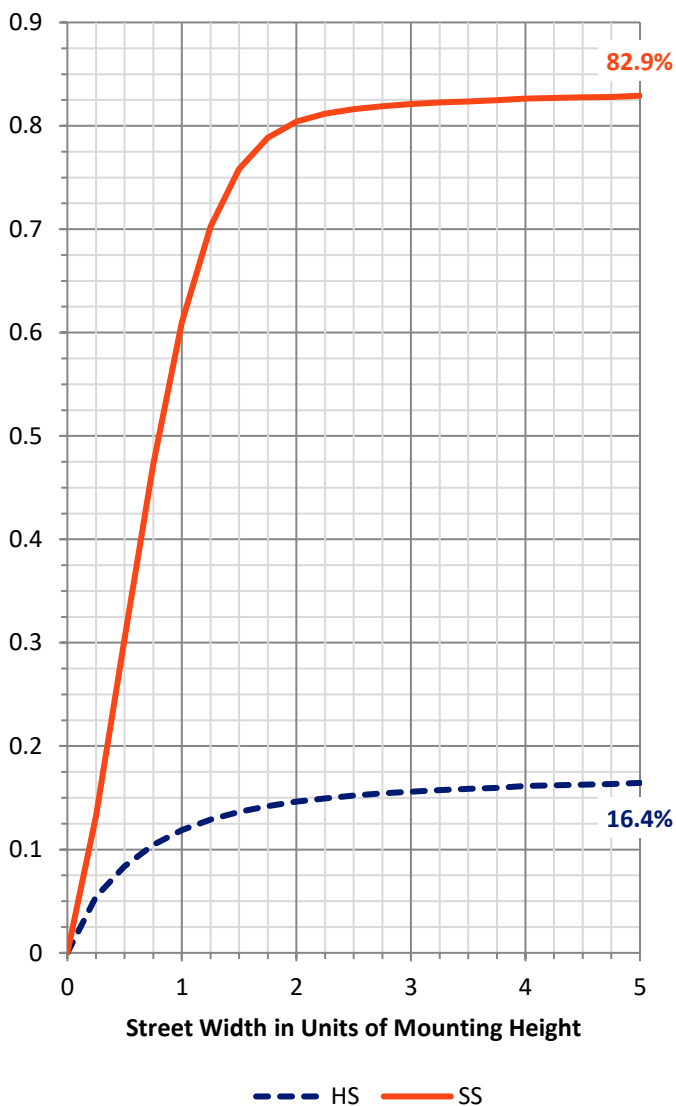
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1209.3	0.0	1209.3
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	5977.6	0.0	5977.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	7186.9	0.0	7186.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.4	1.1
10°-20°	313.4	4.4
20°-30°	609.0	8.5
30°-40°	994.1	13.8
40°-50°	1358.2	18.9
50°-60°	1582.0	22.0
60°-70°	1418.3	19.7
70°-80°	716.8	10.0
80°-90°	115.7	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°	7186.9	100.0
0°-180°	7186.9	100.0

**Coefficient of Utilization**



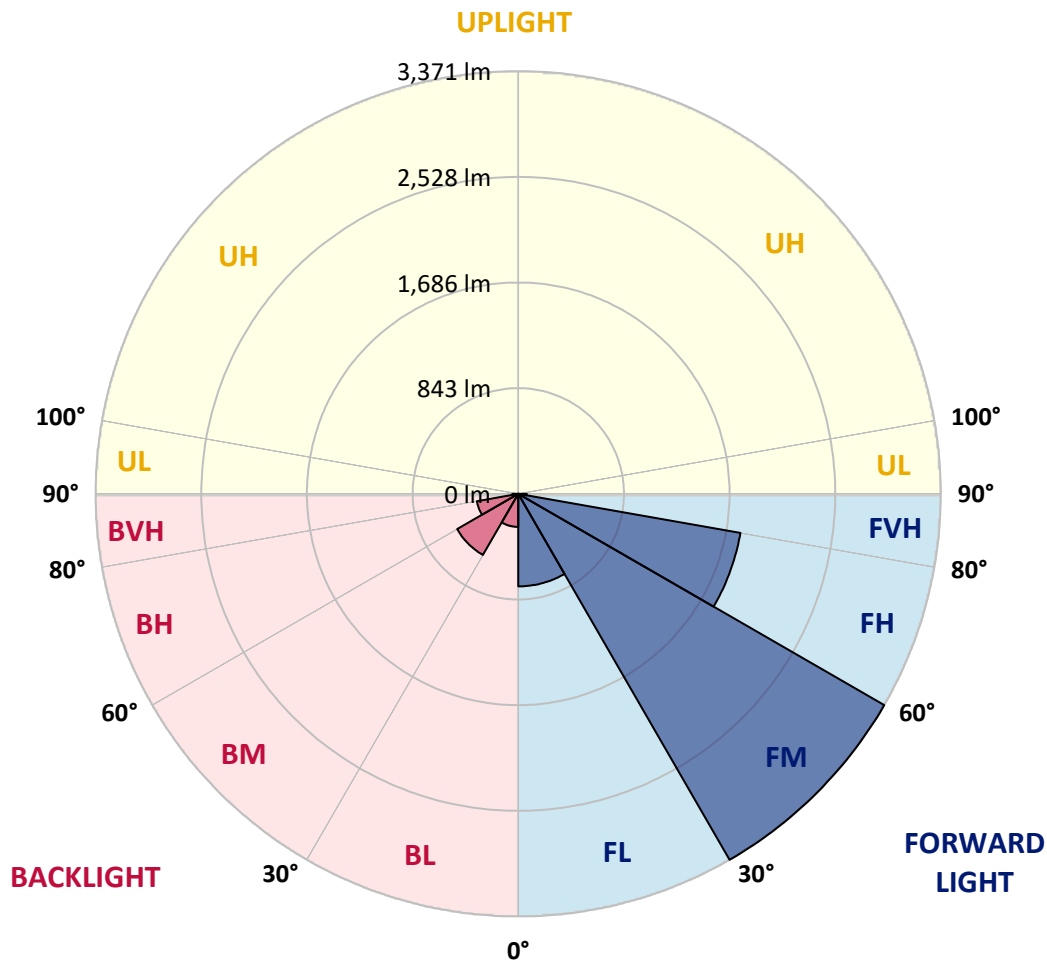
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.1	10.3			
FM (30°-60°)	3371.1	46.9			
FH (60°-80°)	1800.0	25.0			G2/5000
FVH (80°-90°)	68.4	1.0			G1/100
BL (0°-30°)	263.8	3.7	B1/500		
BM (30°-60°)	563.1	7.8	B1/1000		
BH (60°-80°)	335.0	4.7	B1/500		G1/500
BVH (80°-90°)	47.4	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°	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4
2.5°	871.3	858.1	856.8	837.6	833.2	796.4	769.3	741.0	708.8	702.5	677.0
5°	1119.2	1118.0	1101.1	1069.6	1045.0	982.0	919.8	853.9	781.8	770.0	712.9
7.5°	1342.2	1340.2	1327.3	1293.4	1257.8	1180.4	1091.6	990.6	873.5	856.2	761.4
10°	1511.5	1510.8	1506.4	1481.5	1451.3	1377.1	1279.0	1141.1	980.1	956.4	822.3
12.5°	1642.3	1643.7	1646.7	1637.8	1623.5	1560.3	1459.7	1300.7	1093.8	1070.3	889.8
15°	1730.8	1735.2	1750.4	1762.8	1770.4	1731.6	1634.2	1463.9	1221.2	1193.1	964.7
17.5°	1775.5	1780.4	1806.5	1844.1	1878.7	1874.8	1797.4	1619.6	1343.4	1316.3	1045.2
20°	1814.0	1817.7	1847.0	1892.2	1953.4	1980.5	1937.0	1769.4	1477.3	1445.1	1130.6
22.5°	1925.8	1930.4	1939.2	1964.8	2019.0	2068.8	2047.8	1911.2	1600.0	1570.0	1211.7
25°	2141.4	2147.1	2128.0	2106.3	2116.6	2151.2	2155.1	2040.5	1724.5	1690.6	1298.8
27.5°	2401.3	2409.4	2376.9	2321.0	2272.2	2258.8	2254.2	2146.4	1843.3	1804.0	1384.8
30°	2655.8	2669.7	2627.5	2555.0	2465.5	2402.6	2356.0	2250.1	1960.4	1922.9	1466.2
32.5°	2904.4	2898.8	2837.6	2766.8	2661.9	2583.1	2470.4	2361.3	2092.2	2049.0	1546.8
35°	3074.8	3076.7	3019.8	2935.9	2835.8	2775.4	2623.6	2481.4	2226.6	2186.9	1638.6
37.5°	3219.6	3210.7	3146.2	3067.9	2981.8	2955.9	2802.9	2613.5	2372.3	2328.9	1736.2
40°	3268.0	3257.4	3215.2	3158.9	3089.9	3087.6	3000.8	2763.4	2537.0	2494.0	1846.2
42.5°	3238.7	3225.3	3208.0	3192.6	3171.4	3181.1	3186.7	2939.0	2718.0	2669.9	1973.6
45°	3130.6	3110.3	3122.5	3156.0	3202.1	3257.2	3354.6	3133.5	2920.8	2880.5	2123.2
47.5°	2964.5	2946.1	2984.2	3055.7	3181.1	3320.7	3513.4	3348.3	3162.8	3122.8	2336.1
50°	2730.7	2736.0	2790.5	2920.5	3110.1	3349.9	3709.0	3632.5	3514.6	3477.3	2626.8
52.5°	2347.1	2348.2	2501.4	2714.8	2984.2	3334.8	3817.7	3995.8	3995.0	3949.9	2903.4
55°	1990.9	2012.6	2133.9	2417.6	2780.2	3274.3	3893.6	4172.4	4310.6	4257.5	3161.3
57.5°	1643.0	1655.7	1770.6	2055.6	2489.2	3113.0	3971.4	4384.4	4674.0	4640.6	3481.9
60°	1247.2	1266.8	1385.6	1648.8	2116.8	2826.9	3978.7	4605.8	5108.6	5074.9	3839.8
62.5°	809.5	843.2	954.5	1201.1	1666.4	2415.2	3808.9	4750.4	5520.4	5508.5	4157.5
65°	465.3	490.6	568.0	758.3	1149.6	1898.5	3405.1	4694.8	5773.9	5767.1	4276.4
66°	380.2	396.0	455.2	592.7	948.6	1667.2	3170.3	4577.4	5799.1	5799.3	4262.7
67.5°	304.0	311.0	337.7	424.3	700.0	1321.4	2751.0	4318.6	5767.9	5776.4	4174.6
70°	251.5	255.2	263.5	284.5	382.1	796.8	1952.6	3645.9	5454.3	5460.9	3830.8
72.5°	225.7	227.9	231.0	234.0	269.6	445.3	1192.6	2916.6	4782.1	4790.7	3307.0
75°	204.5	205.7	205.2	205.4	226.2	283.7	616.3	2177.6	3866.7	3849.6	2533.3
77.5°	179.6	180.8	178.4	178.9	200.1	218.2	306.7	1524.4	2609.5	2488.9	1427.3
80°	151.7	152.8	151.7	153.4	174.2	164.7	178.4	857.6	1153.8	1091.3	507.5
82.5°	114.7	118.9	121.8	128.6	143.5	117.1	119.3	334.1	351.4	334.5	155.7
85°	50.3	61.2	91.8	98.4	107.9	70.2	78.3	136.1	143.0	138.6	56.6
87.5°	13.1	14.4	45.4	57.1	59.8	31.7	40.7	61.9	65.4	61.9	18.8
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°	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4
2.5°	663.6	651.7	630.2	611.2	596.7	587.1	577.3	572.4	569.5	566.6	567.0
5°	684.9	660.7	623.9	597.8	583.1	573.8	569.0	567.0	565.8	562.8	562.8
7.5°	716.8	682.6	632.0	605.1	593.6	586.5	583.6	582.7	581.2	577.7	578.2
10°	757.1	709.3	648.7	622.6	612.1	604.4	600.2	598.7	596.1	592.2	592.7
12.5°	804.4	742.2	671.0	643.6	630.9	620.5	613.6	609.5	604.9	599.7	600.0
15°	856.2	778.0	694.8	662.4	645.1	630.5	619.5	612.4	605.1	598.7	598.5
17.5°	908.6	812.7	713.2	672.7	649.3	630.0	615.1	604.1	595.1	587.2	586.5
20°	965.2	844.0	723.4	671.7	641.5	618.5	598.7	585.1	575.0	567.3	566.0
22.5°	1022.8	873.2	725.1	661.7	624.1	596.1	575.3	560.2	550.0	541.9	539.0
25°	1075.5	896.0	718.0	642.4	600.0	569.7	549.4	534.1	525.8	516.3	513.4
27.5°	1123.5	911.8	703.9	617.8	572.9	543.1	524.1	511.0	501.9	494.6	492.1
30°	1166.8	920.3	680.7	588.5	545.0	517.9	501.9	492.9	485.1	475.7	474.1
32.5°	1207.8	920.3	651.0	556.5	517.5	495.8	486.3	480.7	471.8	462.9	460.4
35°	1248.7	914.7	615.8	523.1	492.1	479.9	479.5	472.9	459.4	447.2	444.1
37.5°	1291.9	903.2	576.3	491.9	471.4	472.9	477.0	462.3	443.3	426.0	421.3
40°	1340.7	887.4	535.3	464.7	454.0	469.7	470.4	447.2	410.2	394.3	390.1
42.5°	1398.1	871.6	497.3	440.9	440.4	460.2	457.9	414.5	392.4	384.3	382.1
45°	1473.4	862.5	461.1	418.2	429.6	444.8	436.7	396.5	387.2	382.6	380.6
47.5°	1592.3	867.1	428.0	400.1	418.9	429.4	397.2	389.2	382.6	377.0	375.0
50°	1741.1	864.5	401.1	387.7	406.7	413.3	379.4	379.6	376.3	369.9	366.9
52.5°	1853.1	843.4	383.8	380.6	396.0	384.7	368.1	370.4	368.7	359.4	356.2
55°	1961.2	825.4	375.0	377.9	388.2	349.1	355.0	360.3	358.6	349.6	348.2
57.5°	2095.6	822.0	369.6	378.7	381.6	331.4	342.3	349.4	348.2	344.3	343.6
60°	2260.3	822.9	364.8	379.9	374.3	318.1	330.3	339.4	340.1	339.4	338.9
62.5°	2350.9	796.4	352.6	376.4	361.3	306.7	317.9	331.1	331.4	332.8	332.6
65°	2274.0	716.8	329.9	364.5	339.6	297.2	307.2	321.6	317.9	324.5	324.5
66°	2199.3	671.0	318.7	356.7	330.3	293.5	303.8	316.7	312.1	321.1	321.1
67.5°	2046.8	593.6	298.4	340.1	317.2	288.4	299.9	308.6	302.3	315.7	314.8
70°	1768.2	459.2	257.7	302.6	295.5	280.9	294.5	292.5	283.3	303.8	299.9
72.5°	1490.8	348.9	206.9	253.3	262.5	271.4	286.9	272.0	260.4	274.7	266.2
75°	1156.7	262.3	163.5	196.9	221.8	256.5	277.9	248.4	231.6	230.1	225.4
77.5°	625.3	180.1	129.6	150.3	176.2	237.9	271.8	223.0	197.7	191.8	188.1
80°	247.6	117.1	94.2	113.9	123.2	211.1	257.2	193.5	163.0	157.2	151.5
82.5°	102.2	69.3	60.7	76.4	80.3	180.5	230.8	158.5	125.9	174.2	184.9
85°	43.9	38.1	36.1	39.5	45.4	126.6	183.7	121.0	135.9	121.3	96.4
87.5°	13.1	16.1	15.4	15.1	16.6	30.3	97.8	67.4	99.8	37.8	28.3
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)