

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: P382763

Luminaire Tested: **GLEON-SA1B-735-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382763  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1B-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5607 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

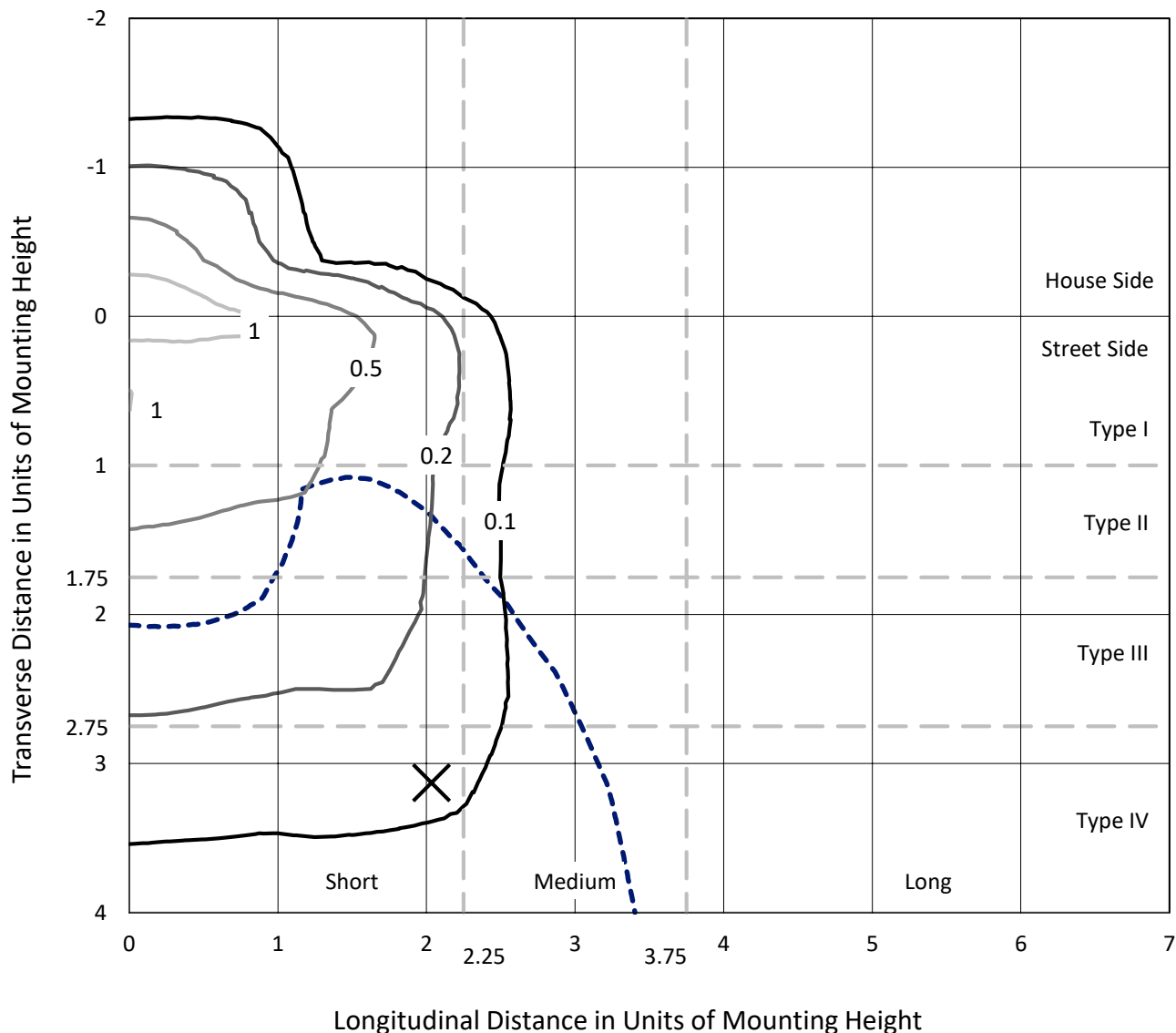
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

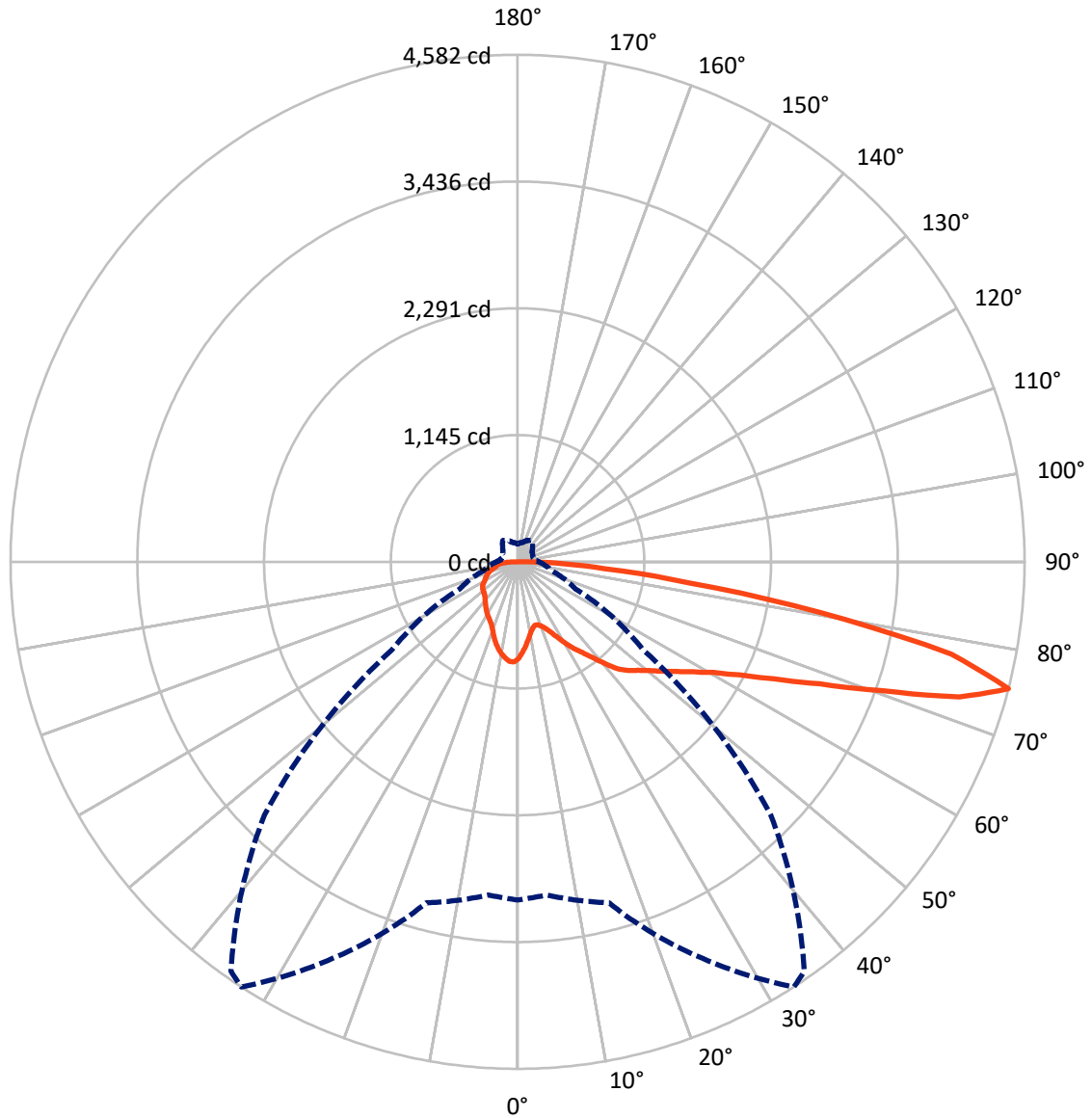
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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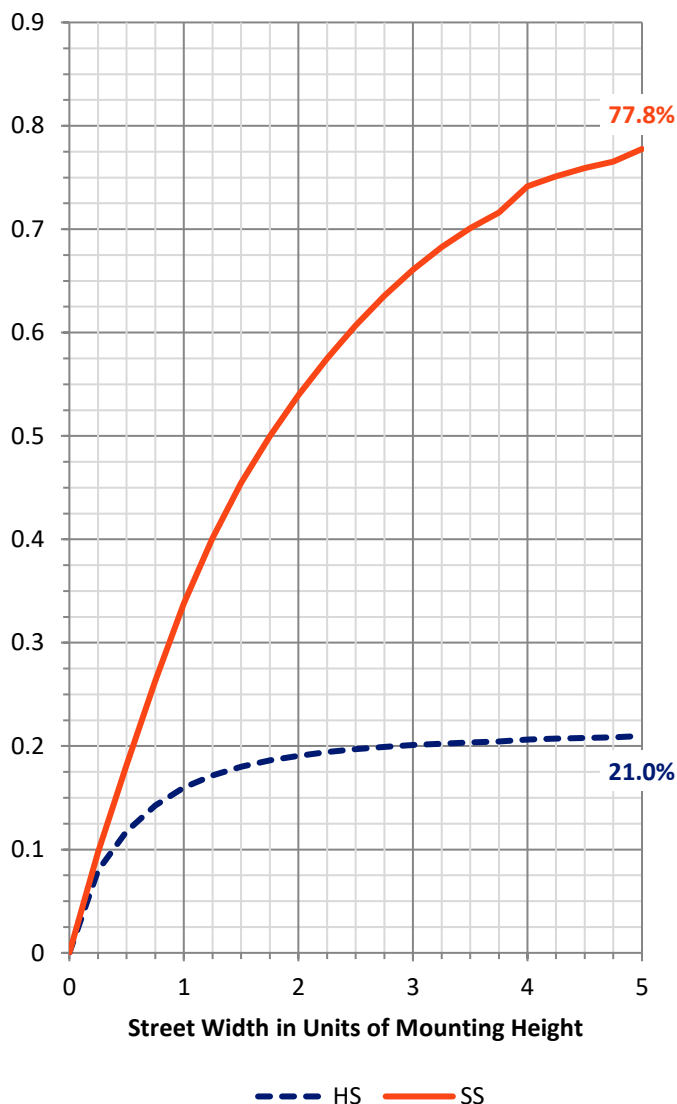
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1204.0	0.0	1204.0
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	4403.0	0.0	4403.0
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	5607.0	0.0	5607.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.3	1.4
10°-20°	214.7	3.8
20°-30°	350.6	6.3
30°-40°	522.1	9.3
40°-50°	748.8	13.4
50°-60°	1028.0	18.3
60°-70°	1287.1	23.0
70°-80°	1164.3	20.8
80°-90°	212.1	3.8
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°	5607.0	100.0
0°-180°	5607.0	100.0

**Coefficient of Utilization**

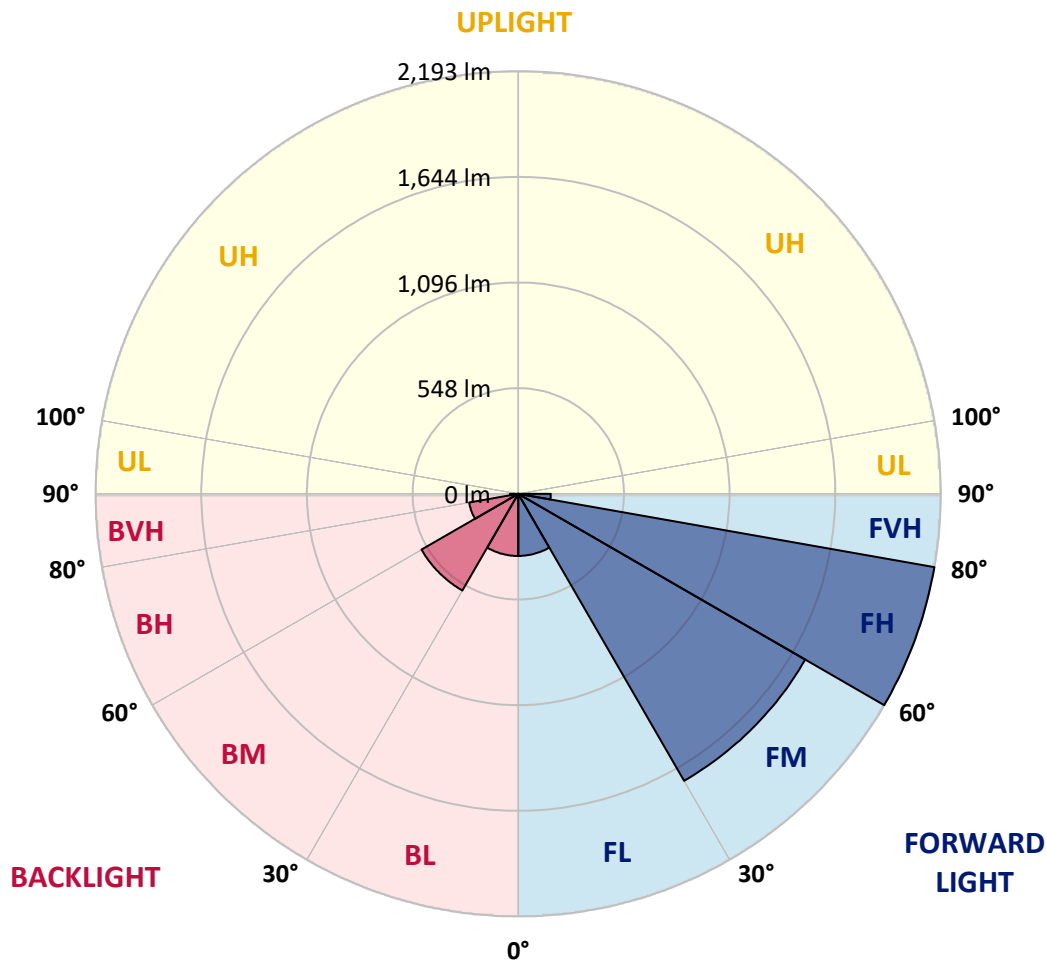


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	322.0	5.7			
FM (30°-60°)	1719.5	30.7			
FH (60°-80°)	2192.5	39.1			G2/5000
FVH (80°-90°)	168.9	3.0			G2/225
BL (0°-30°)	322.5	5.8	B1/500		
BM (30°-60°)	579.4	10.3	B1/1000		
BH (60°-80°)	258.9	4.6	B1/500		G1/500
BVH (80°-90°)	43.2	0.8			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	876.4	876.4	876.4	876.4	876.4	876.4	876.4	876.4	876.4	876.4	876.4
2.5°	813.8	810.7	816.6	817.3	822.4	824.3	831.3	842.1	851.1	861.3	870.6
5°	740.0	737.9	746.1	751.9	762.9	767.6	784.0	807.1	827.6	850.9	871.9
7.5°	670.0	668.8	677.9	691.0	703.9	710.2	738.7	772.2	806.4	844.1	876.4
10°	610.9	610.4	619.2	632.1	651.0	658.1	694.9	739.1	787.2	838.9	883.9
12.5°	577.7	579.1	583.1	594.0	611.5	618.6	659.4	711.4	770.9	837.1	895.0
15°	585.9	588.0	581.0	580.6	593.0	598.7	637.0	691.7	759.2	840.0	911.1
17.5°	620.6	621.0	602.5	590.9	598.4	601.4	630.0	680.4	752.4	846.6	931.2
20°	669.3	668.4	635.9	616.5	620.6	621.3	639.9	680.6	751.9	858.0	957.4
22.5°	734.1	726.9	683.1	656.7	655.8	654.6	665.3	694.9	760.4	876.6	988.6
25°	818.5	811.8	751.5	715.4	707.7	704.8	706.4	725.5	777.3	896.5	1023.4
27.5°	912.5	900.6	842.5	791.5	775.5	771.4	762.1	768.7	795.6	915.7	1064.9
30°	991.1	984.6	934.0	873.5	854.5	848.7	824.3	817.2	822.2	941.9	1117.1
32.5°	1035.0	1030.8	1000.0	951.2	933.5	925.4	890.9	876.6	864.8	983.2	1188.0
35°	1088.3	1085.5	1067.0	1031.5	1005.4	996.8	970.1	955.2	924.8	1039.9	1279.7
37.5°	1156.1	1153.2	1153.5	1124.9	1093.7	1085.8	1068.1	1052.5	1002.7	1114.4	1379.2
40°	1232.8	1227.1	1225.0	1223.7	1203.9	1199.5	1190.1	1168.9	1100.3	1203.6	1477.4
42.5°	1348.2	1328.3	1285.6	1301.7	1321.3	1319.0	1326.5	1295.9	1208.8	1308.9	1573.3
45°	1459.5	1426.9	1353.3	1356.7	1399.6	1412.5	1469.1	1447.3	1326.3	1424.3	1672.4
47.5°	1510.3	1485.5	1422.9	1423.1	1465.6	1492.5	1616.4	1601.0	1449.9	1555.4	1793.5
50°	1567.0	1542.3	1486.1	1507.2	1544.2	1572.9	1758.9	1750.8	1567.4	1699.0	1938.6
52.5°	1629.1	1587.0	1551.4	1589.1	1641.0	1674.4	1901.4	1879.7	1675.3	1843.4	2105.3
55°	1629.8	1618.4	1645.5	1673.2	1750.8	1791.7	2050.7	1993.3	1763.2	1985.4	2241.1
57.5°	1722.6	1704.0	1761.6	1774.3	1875.8	1921.9	2199.2	2092.3	1852.8	2094.3	2314.2
60°	1845.4	1829.5	1876.6	1910.2	2030.3	2092.0	2357.8	2194.0	1923.1	2176.4	2310.8
62.5°	2057.5	2039.4	2038.9	2086.1	2247.8	2319.6	2535.9	2293.7	1950.9	2192.7	2212.2
65°	2367.9	2339.3	2285.3	2307.7	2548.2	2619.7	2734.7	2366.0	1914.1	2105.5	1958.3
67.5°	2670.1	2669.1	2602.7	2648.8	2944.9	3002.2	2961.4	2373.2	1799.3	1802.0	1507.8
70°	2971.3	2975.1	2963.9	3124.2	3480.8	3540.4	3202.7	2276.9	1541.2	1301.4	903.3
72.5°	3209.8	3208.9	3265.4	3679.0	4176.3	4163.0	3406.0	1985.2	1106.5	702.5	431.7
75°	3055.3	3021.6	3190.1	3953.6	4581.7	4516.4	3233.1	1384.8	574.3	319.8	232.4
77.5°	1992.8	2024.7	2272.0	3266.0	4007.6	3928.2	2372.0	646.1	270.6	209.8	168.5
80°	721.7	755.4	1063.9	1850.1	2761.1	2748.2	1168.1	265.5	183.0	158.5	122.8
82.5°	248.3	260.7	419.7	821.6	1558.9	1617.1	439.5	150.9	133.0	112.3	84.0
85°	97.4	111.6	191.9	395.3	786.3	792.2	178.0	90.3	92.6	73.6	46.1
87.5°	37.0	44.9	91.9	183.6	359.1	329.9	63.7	43.0	52.7	43.8	21.9
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°	876.4	876.4	876.4	876.4	876.4	876.4	876.4	876.4	876.4	876.4	876.4
2.5°	877.8	881.8	890.4	896.1	902.4	904.1	904.9	906.4	908.0	907.4	907.6
5°	883.2	891.1	904.9	910.7	913.4	910.3	904.3	899.4	896.0	894.0	893.4
7.5°	892.0	903.3	918.0	917.1	910.9	897.2	881.6	870.0	860.3	856.8	854.9
10°	903.9	917.1	927.4	916.3	898.3	874.4	851.2	833.2	818.6	813.1	812.1
12.5°	919.0	932.4	934.3	910.9	881.1	848.5	817.0	793.1	771.4	764.4	762.9
15°	938.5	951.2	939.2	901.4	859.7	815.9	775.1	742.7	719.9	711.4	708.3
17.5°	959.1	971.1	940.1	885.7	831.9	777.5	726.1	693.0	666.8	656.9	655.8
20°	983.7	989.1	936.0	863.3	793.5	727.4	673.4	642.2	628.3	621.3	620.6
22.5°	1014.1	1008.3	926.8	832.8	744.9	669.8	625.8	611.3	607.7	606.3	606.8
25°	1046.2	1028.4	913.0	793.1	683.5	612.0	590.9	595.0	599.6	599.1	599.1
27.5°	1081.7	1049.0	891.9	740.4	615.5	564.8	567.3	582.2	589.2	589.0	588.8
30°	1127.2	1072.2	864.9	677.1	552.0	531.4	546.7	565.0	574.5	574.1	574.3
32.5°	1183.2	1097.7	828.3	606.4	506.1	506.9	524.5	542.5	553.5	552.6	552.8
35°	1248.6	1126.4	778.8	536.7	475.6	487.3	501.3	513.8	524.3	523.0	521.6
37.5°	1319.9	1154.6	712.9	474.3	450.9	469.1	480.7	482.8	487.7	484.2	481.7
40°	1387.7	1176.0	628.1	423.2	425.9	453.6	461.1	452.6	443.9	442.8	439.2
42.5°	1446.8	1183.2	542.3	382.3	399.5	437.4	442.0	424.1	408.5	401.1	398.1
45°	1509.2	1185.7	462.3	348.0	374.2	422.8	427.9	404.0	381.9	366.1	360.8
47.5°	1590.7	1203.9	400.1	322.7	354.8	413.1	420.3	387.9	359.3	336.7	331.8
50°	1697.4	1240.0	349.6	303.3	342.3	406.7	414.8	372.2	340.7	313.4	308.5
52.5°	1816.0	1273.1	308.7	287.6	330.0	395.5	407.9	361.0	323.2	291.9	286.6
55°	1898.9	1247.7	275.8	271.4	314.1	379.4	398.2	351.6	298.3	271.0	266.3
57.5°	1914.7	1160.9	250.8	254.5	295.0	359.3	383.3	330.4	284.7	261.9	257.0
60°	1871.3	1040.1	232.2	239.0	274.4	333.9	355.4	315.5	271.7	252.2	248.1
62.5°	1762.3	916.3	218.4	225.1	255.2	308.2	338.0	299.8	258.6	241.2	237.1
65°	1542.1	769.3	205.3	212.7	237.5	285.9	322.3	285.3	245.6	232.2	228.3
67.5°	1164.1	576.2	192.9	199.4	221.6	266.5	305.3	271.0	233.0	224.5	219.8
70°	685.4	360.8	178.8	185.8	204.9	246.4	287.0	255.2	217.3	213.4	207.5
72.5°	319.0	217.1	162.6	169.4	184.0	219.5	263.6	234.7	198.7	190.2	182.0
75°	190.4	158.8	143.7	149.7	159.9	190.8	234.2	213.8	181.1	169.8	161.3
77.5°	142.3	121.5	122.8	129.2	137.5	166.9	207.5	197.4	167.5	158.8	153.1
80°	102.5	92.2	100.1	107.1	115.8	151.8	198.7	182.5	151.5	139.8	134.4
82.5°	68.4	66.2	75.4	82.5	91.0	132.8	186.7	159.8	129.4	114.7	102.7
85°	37.7	39.9	50.8	53.8	61.2	93.5	153.1	128.4	97.4	78.4	75.0
87.5°	15.6	18.4	27.3	26.4	32.5	55.8	100.7	77.5	61.9	46.3	36.1
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)