

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: P382729

Luminaire Tested: **GLEON-SA1A-735-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382729  
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-SA1A-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4735.1 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

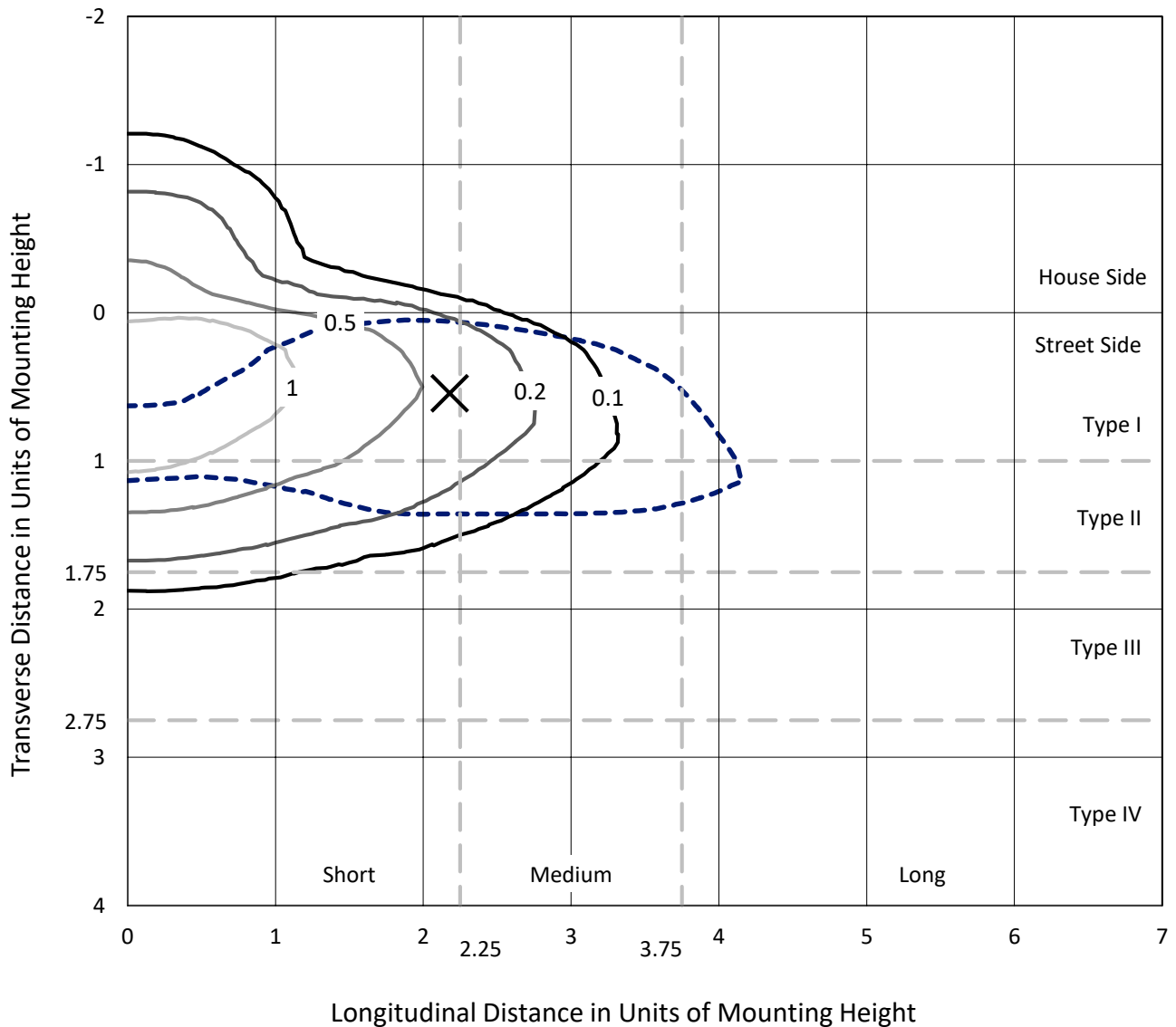
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

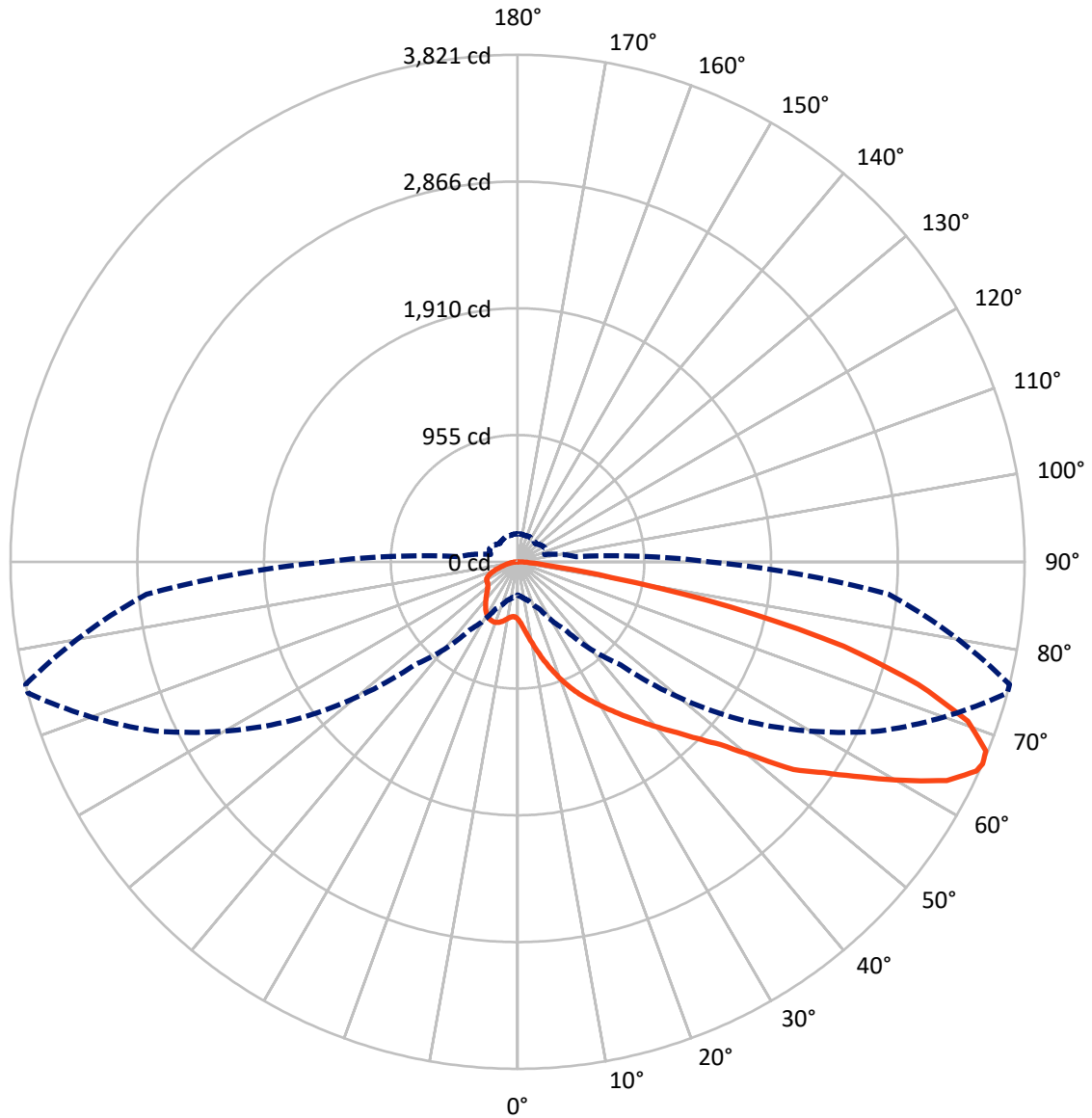
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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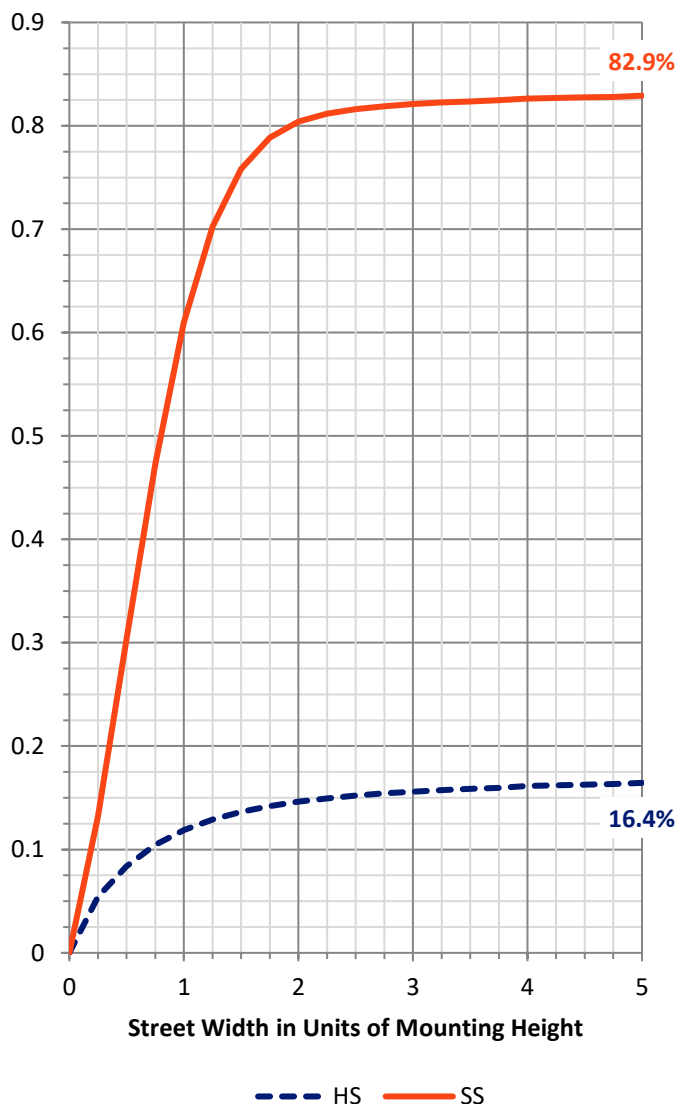
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	796.7	0.0	796.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	3938.3	0.0	3938.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	4735.1	0.0	4735.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.3	1.1
10°-20°	206.5	4.4
20°-30°	401.3	8.5
30°-40°	655.0	13.8
40°-50°	894.8	18.9
50°-60°	1042.3	22.0
60°-70°	934.4	19.7
70°-80°	472.2	10.0
80°-90°	76.3	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°	4735.1	100.0
0°-180°	4735.1	100.0

**Coefficient of Utilization**

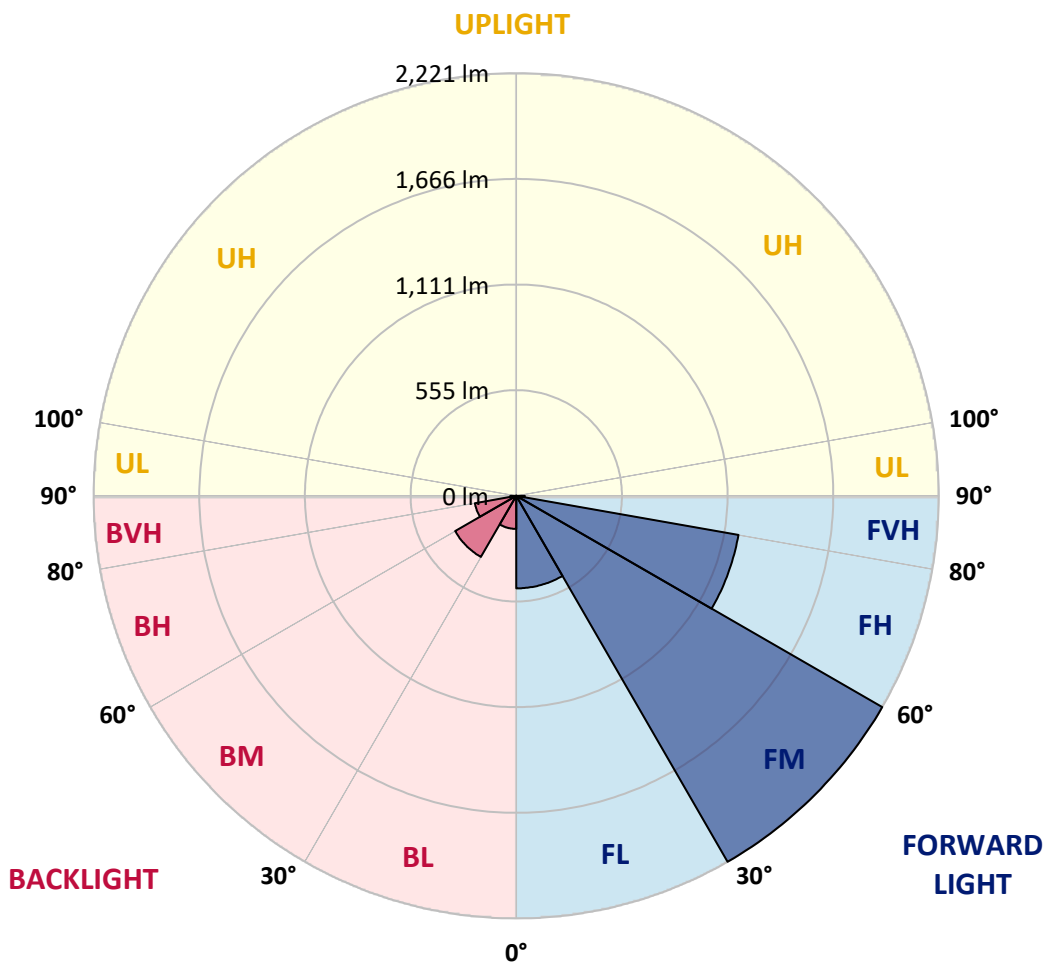


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.3	10.3			
FM (30°-60°)	2221.1	46.9			
FH (60°-80°)	1185.9	25.0			G1/1800
FVH (80°-90°)	45.0	1.0			G1/100
BL (0°-30°)	173.8	3.7	B1/500		
BM (30°-60°)	371.0	7.8	B1/1000		
BH (60°-80°)	220.7	4.7	B1/500		G1/500
BVH (80°-90°)	31.2	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4
2.5°	574.0	565.4	564.5	551.8	549.0	524.6	506.9	488.2	467.0	462.8	446.1
5°	737.3	736.6	725.5	704.7	688.5	647.1	606.1	562.7	515.1	507.3	469.7
7.5°	884.3	883.0	874.4	852.2	828.7	777.7	719.2	652.6	575.5	564.1	501.7
10°	995.8	995.4	992.5	976.1	956.1	907.2	842.7	751.9	645.7	630.1	541.7
12.5°	1082.0	1083.0	1084.9	1079.1	1069.6	1028.0	961.7	856.9	720.6	705.2	586.2
15°	1140.4	1143.3	1153.3	1161.5	1166.4	1140.9	1076.7	964.5	804.6	786.0	635.6
17.5°	1169.7	1173.0	1190.2	1214.9	1237.7	1235.2	1184.3	1067.1	885.1	867.3	688.7
20°	1195.2	1197.6	1216.9	1246.6	1286.9	1304.8	1276.2	1165.7	973.4	952.1	745.0
22.5°	1268.8	1271.8	1277.6	1294.5	1330.2	1363.0	1349.2	1259.2	1054.2	1034.4	798.2
25°	1410.9	1414.6	1402.1	1387.7	1394.5	1417.3	1419.9	1344.3	1136.2	1113.9	855.6
27.5°	1582.1	1587.5	1566.0	1529.2	1497.1	1488.2	1485.2	1414.1	1214.5	1188.6	912.5
30°	1749.7	1758.9	1731.1	1683.4	1624.3	1582.9	1552.2	1482.5	1291.6	1266.9	965.9
32.5°	1913.6	1909.9	1869.5	1822.9	1753.8	1701.8	1627.6	1555.8	1378.4	1350.0	1019.1
35°	2025.7	2027.0	1989.6	1934.3	1868.4	1828.5	1728.6	1634.9	1467.0	1440.8	1079.6
37.5°	2121.2	2115.3	2072.9	2021.3	1964.5	1947.5	1846.7	1722.0	1563.0	1534.4	1143.9
40°	2153.1	2146.2	2118.3	2081.3	2035.7	2034.3	1977.0	1820.6	1671.5	1643.2	1216.4
42.5°	2133.8	2125.0	2113.5	2103.4	2089.5	2095.9	2099.5	1936.4	1790.7	1759.0	1300.3
45°	2062.5	2049.2	2057.3	2079.3	2109.7	2146.0	2210.2	2064.5	1924.3	1897.8	1398.8
47.5°	1953.1	1941.1	1966.1	2013.3	2095.9	2187.8	2314.8	2206.0	2083.8	2057.4	1539.2
50°	1799.1	1802.6	1838.5	1924.2	2049.1	2207.1	2443.7	2393.2	2315.6	2291.0	1730.6
52.5°	1546.4	1547.0	1648.0	1788.7	1966.1	2197.1	2515.3	2632.6	2632.1	2602.4	1912.9
55°	1311.7	1326.1	1405.9	1592.9	1831.7	2157.3	2565.2	2749.0	2840.0	2805.1	2082.8
57.5°	1082.5	1090.8	1166.6	1354.3	1640.0	2051.0	2616.5	2888.6	3079.5	3057.4	2294.0
60°	821.7	834.6	912.9	1086.4	1394.7	1862.4	2621.4	3034.5	3365.8	3343.6	2529.9
62.5°	533.4	555.6	628.9	791.3	1097.9	1591.3	2509.5	3129.8	3637.1	3629.2	2739.2
65°	306.6	323.2	374.2	499.6	757.4	1250.8	2243.4	3093.1	3804.2	3799.7	2817.5
66°	250.5	260.9	300.0	390.5	625.0	1098.4	2088.8	3015.8	3820.7	3820.8	2808.4
67.5°	200.3	204.9	222.5	279.6	461.2	870.6	1812.4	2845.3	3800.2	3805.7	2750.4
70°	165.7	168.1	173.6	187.4	251.7	525.0	1286.5	2402.1	3593.5	3597.9	2523.9
72.5°	148.7	150.2	152.2	154.2	177.6	293.3	785.8	1921.6	3150.7	3156.4	2178.8
75°	134.7	135.5	135.2	135.4	149.0	187.0	406.1	1434.7	2547.6	2536.3	1669.1
77.5°	118.3	119.1	117.5	117.8	131.8	143.7	202.1	1004.4	1719.3	1639.8	940.4
80°	100.0	100.6	100.0	101.1	114.8	108.5	117.5	565.1	760.1	719.1	334.3
82.5°	75.5	78.2	80.2	84.7	94.6	77.1	78.6	220.0	231.5	220.4	102.6
85°	33.1	40.3	60.5	64.7	71.1	46.3	51.6	89.7	94.2	91.3	37.3
87.5°	8.7	9.5	29.9	37.6	39.4	20.9	26.8	40.8	43.0	40.8	12.4
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°	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4
2.5°	437.3	429.4	415.2	402.7	393.2	386.8	380.4	377.1	375.2	373.3	373.6
5°	451.2	435.3	411.0	393.9	384.2	378.1	374.9	373.6	372.8	370.8	370.8
7.5°	472.3	449.8	416.3	398.7	391.1	386.4	384.5	383.9	382.9	380.6	381.0
10°	498.8	467.3	427.4	410.3	403.4	398.1	395.4	394.5	392.7	390.1	390.5
12.5°	530.0	489.0	442.0	424.0	415.7	408.8	404.3	401.6	398.5	395.2	395.3
15°	564.1	512.6	457.9	436.4	425.1	415.4	408.1	403.5	398.7	394.5	394.3
17.5°	598.6	535.5	469.9	443.2	427.8	415.1	405.2	398.1	392.1	387.0	386.4
20°	636.0	556.0	476.6	442.6	422.6	407.5	394.5	385.5	378.9	373.7	372.9
22.5°	673.9	575.3	477.8	436.0	411.2	392.7	379.0	369.1	362.4	357.1	355.1
25°	708.6	590.2	473.1	423.3	395.3	375.3	362.0	351.8	346.4	340.1	338.2
27.5°	740.2	600.8	463.7	407.0	377.5	357.8	345.3	336.6	330.7	325.9	324.3
30°	768.7	606.3	448.4	387.7	359.1	341.2	330.7	324.7	319.6	313.5	312.3
32.5°	795.7	606.3	428.9	366.7	340.9	326.6	320.4	316.6	310.9	305.0	303.3
35°	822.7	602.6	405.7	344.7	324.3	316.2	315.9	311.5	302.7	294.6	292.6
37.5°	851.2	595.1	379.7	324.1	310.6	311.5	314.3	304.6	292.0	280.7	277.6
40°	883.3	584.6	352.7	306.2	299.1	309.5	309.9	294.6	270.2	259.8	257.0
42.5°	921.1	574.2	327.6	290.5	290.2	303.2	301.7	273.1	258.5	253.2	251.7
45°	970.8	568.2	303.8	275.6	283.1	293.1	287.8	261.2	255.2	252.1	250.8
47.5°	1049.0	571.3	282.0	263.6	276.0	282.9	261.7	256.4	252.1	248.4	247.0
50°	1147.1	569.5	264.3	255.4	268.0	272.3	249.9	250.1	247.9	243.7	241.7
52.5°	1220.9	555.7	252.8	250.8	260.9	253.5	242.6	244.0	242.9	236.8	234.7
55°	1292.1	543.8	247.0	249.0	255.7	230.0	233.9	237.5	236.3	230.4	229.3
57.5°	1380.6	541.6	243.5	249.5	251.4	218.3	225.5	230.2	229.3	226.8	226.4
60°	1489.2	542.3	240.3	250.3	246.6	209.6	217.6	223.6	224.1	223.6	223.3
62.5°	1548.8	524.6	232.3	248.1	238.1	202.1	209.4	218.2	218.3	219.3	219.1
65°	1498.2	472.3	217.3	240.2	223.8	195.8	202.4	211.8	209.4	213.8	213.8
66°	1449.0	442.0	210.0	235.0	217.6	193.4	200.1	208.7	205.6	211.6	211.6
67.5°	1348.5	391.1	196.6	224.1	208.9	190.0	197.6	203.4	199.2	208.0	207.4
70°	1165.0	302.6	169.7	199.4	194.7	185.0	194.0	192.7	186.6	200.1	197.6
72.5°	982.2	229.9	136.3	166.8	173.0	178.8	189.0	179.2	171.5	181.0	175.4
75°	762.1	172.8	107.7	129.8	146.2	169.0	183.0	163.7	152.6	151.6	148.5
77.5°	412.0	118.7	85.3	99.0	116.1	156.7	179.0	146.9	130.2	126.3	123.9
80°	163.2	77.1	62.0	75.1	81.1	139.1	169.4	127.4	107.4	103.5	99.9
82.5°	67.4	45.6	40.1	50.3	52.9	119.0	152.0	104.5	82.9	114.8	121.8
85°	29.0	25.1	23.8	26.1	29.9	83.5	121.0	79.7	89.5	79.9	63.5
87.5°	8.7	10.6	10.2	10.0	10.9	19.9	64.5	44.3	65.8	24.9	18.6
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)