

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: P647735

Luminaire Tested: **GALN-SA1A-835-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647735  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-835-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3644.1 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

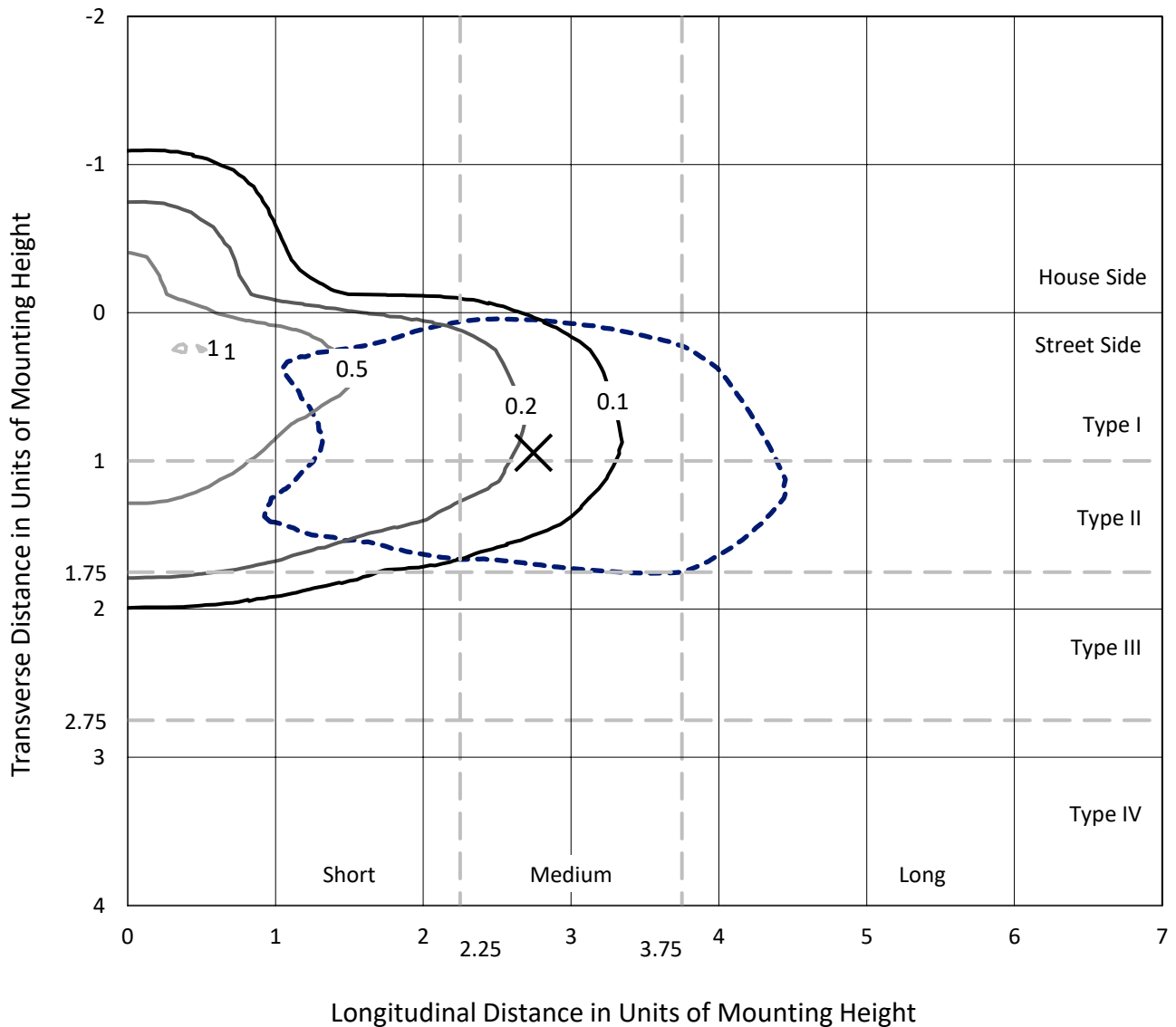
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

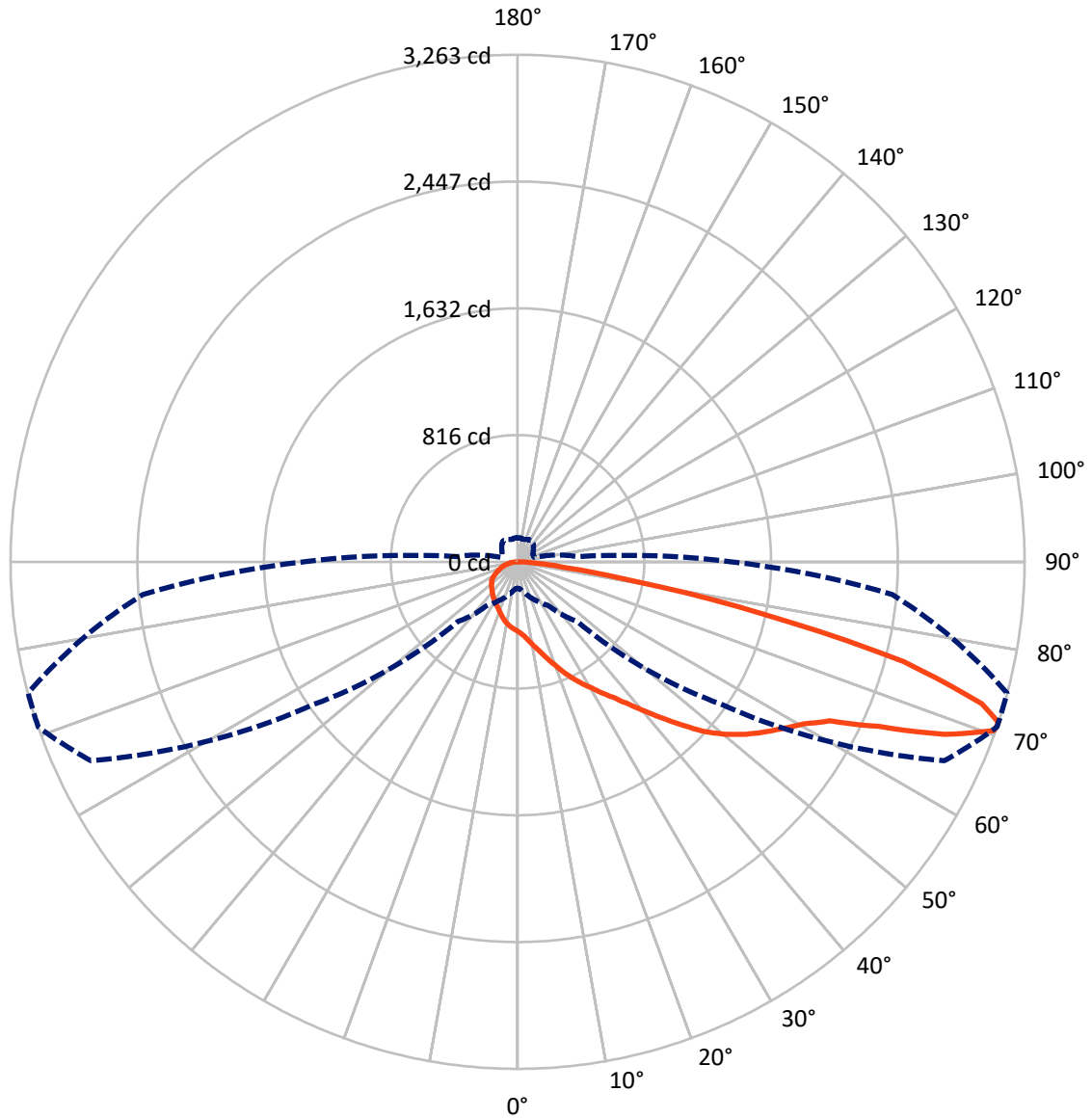
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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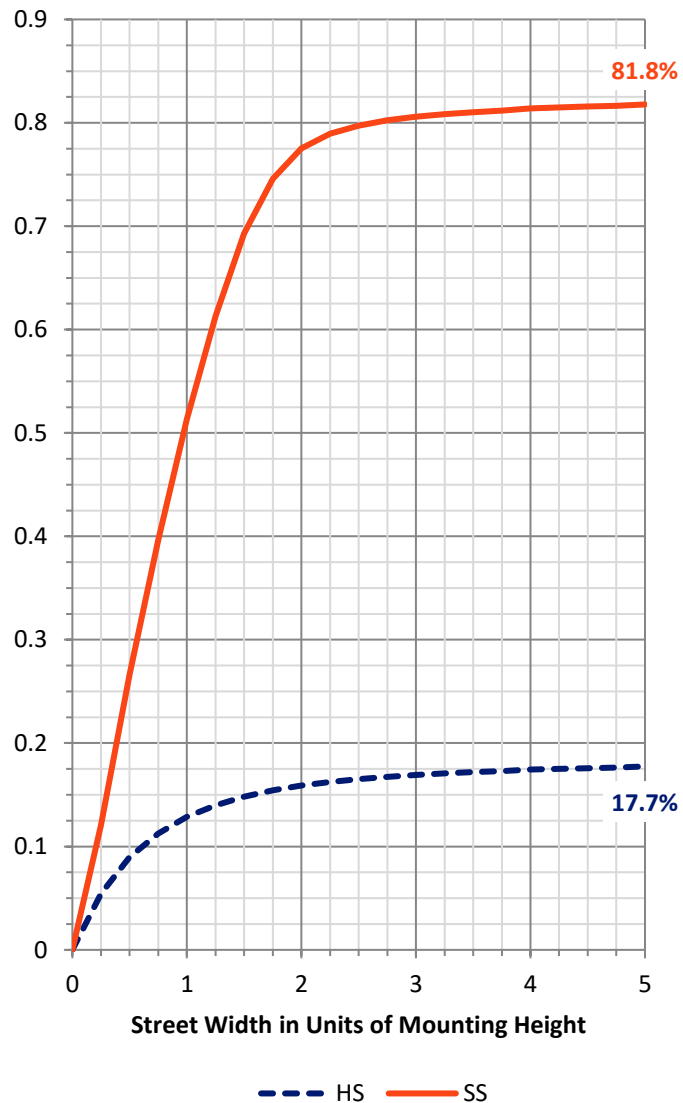
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	655.4	0.0	655.4
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	2988.7	0.0	2988.7
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	3644.1	0.0	3644.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.9	1.2
10°-20°	145.9	4.0
20°-30°	255.0	7.0
30°-40°	379.2	10.4
40°-50°	558.7	15.3
50°-60°	782.2	21.5
60°-70°	874.9	24.0
70°-80°	534.4	14.7
80°-90°	68.7	1.9
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°	3644.1	100.0
0°-180°	3644.1	100.0

**Coefficient of Utilization**

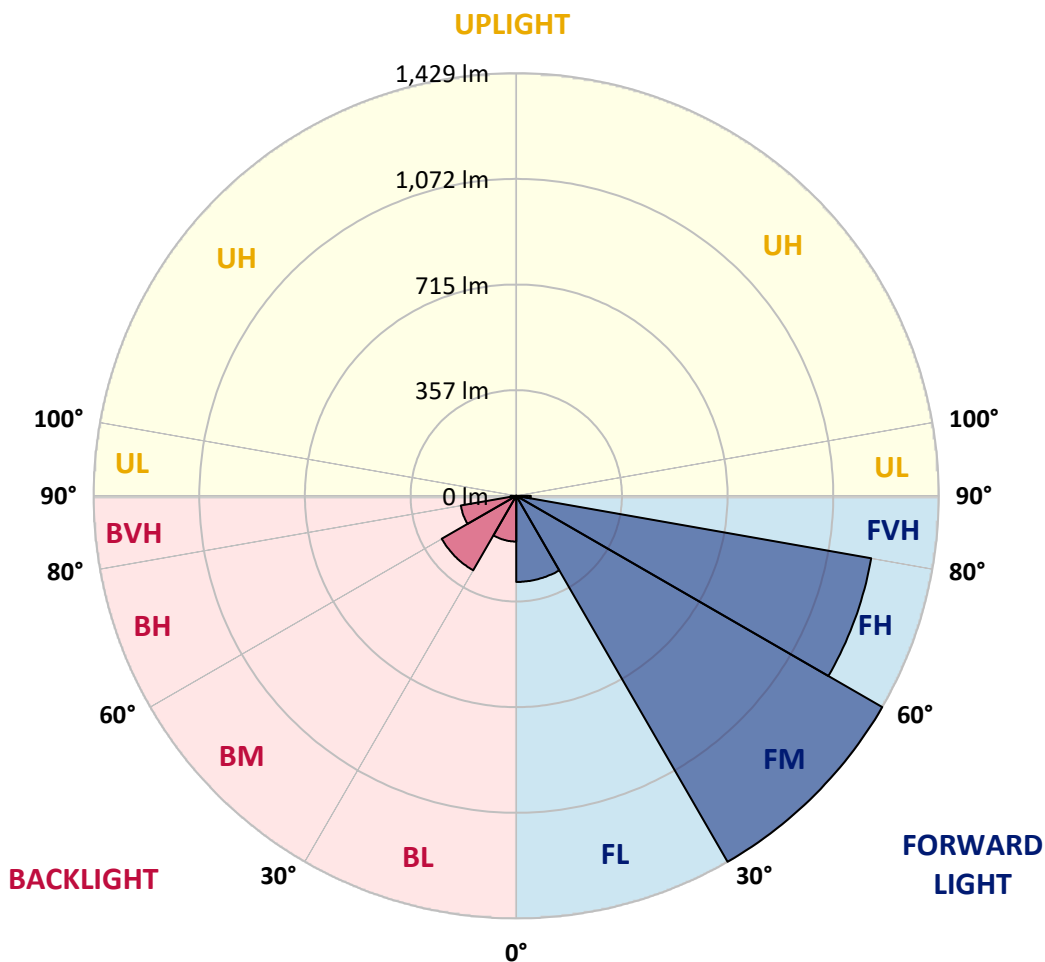


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.2	8.0			
FM (30°-60°)	1429.1	39.2			
FH (60°-80°)	1218.9	33.4			G1/1800
FVH (80°-90°)	49.5	1.4			G1/100
BL (0°-30°)	154.6	4.2	B1/500		
BM (30°-60°)	291.1	8.0	B1/1000		
BH (60°-80°)	190.4	5.2	B1/500		G1/500
BVH (80°-90°)	19.3	0.5			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	447.2	447.2	447.2	447.2	447.2	447.2	447.2	447.2	447.2	447.2	447.2
2.5°	496.5	494.1	494.3	490.9	486.5	481.7	474.9	468.9	464.1	461.3	453.0
5°	550.2	547.8	544.8	537.4	534.2	522.3	507.3	493.7	483.3	477.5	461.0
7.5°	593.7	593.0	592.3	588.0	579.8	563.4	550.6	527.0	511.5	500.5	472.5
10°	620.4	621.5	622.1	622.9	619.5	610.9	593.3	563.4	543.8	529.8	487.3
12.5°	634.1	635.1	638.5	645.9	650.5	649.5	635.1	605.9	578.8	560.4	503.2
15°	642.5	644.1	650.1	659.9	675.3	685.2	678.2	651.1	621.5	599.6	521.9
17.5°	651.8	653.6	660.1	674.2	694.4	715.6	723.3	700.0	667.7	641.7	543.0
20°	656.9	659.4	668.8	687.2	710.8	741.7	766.9	754.7	719.4	690.6	567.2
22.5°	665.3	667.4	675.3	695.0	723.3	761.9	810.6	808.0	776.9	739.6	593.8
25°	688.2	691.4	695.4	707.2	734.5	782.5	846.8	864.8	832.6	790.9	618.3
27.5°	731.2	733.8	733.7	735.2	750.7	800.4	878.3	921.1	887.8	842.8	641.9
30°	780.3	781.4	782.1	778.5	781.9	818.5	907.1	976.8	943.5	896.1	662.6
32.5°	840.0	842.0	835.2	826.0	823.2	845.6	930.9	1032.5	1009.4	950.2	683.0
35°	910.5	915.7	901.9	885.7	874.2	884.5	963.0	1089.4	1076.9	1019.2	710.0
37.5°	991.0	997.5	984.6	952.8	936.5	939.4	1004.8	1159.6	1162.3	1098.0	750.3
40°	1056.9	1065.3	1065.7	1020.6	996.1	999.3	1057.9	1235.3	1265.2	1195.3	797.7
42.5°	1100.3	1108.6	1117.2	1090.8	1065.0	1083.1	1119.8	1317.5	1381.0	1313.5	864.0
45°	1148.0	1155.5	1160.2	1148.3	1133.8	1181.1	1194.5	1404.8	1504.4	1445.5	936.5
47.5°	1203.3	1211.5	1216.2	1204.7	1199.3	1267.0	1275.0	1486.3	1636.2	1573.7	1016.6
50°	1277.0	1283.3	1280.8	1273.6	1272.5	1332.9	1352.3	1562.6	1744.9	1711.6	1099.8
52.5°	1368.8	1376.2	1378.8	1368.5	1364.0	1380.0	1414.6	1632.2	1843.8	1830.2	1188.5
55°	1424.2	1436.0	1475.7	1491.7	1502.7	1440.9	1481.7	1708.8	1932.6	1955.2	1283.8
57.5°	1353.1	1368.4	1457.1	1537.2	1640.8	1593.1	1576.9	1788.9	2021.3	2076.4	1398.0
60°	1179.7	1183.1	1297.4	1445.0	1653.4	1788.8	1775.4	1916.3	2117.4	2198.5	1548.4
62.5°	818.4	825.6	960.7	1196.3	1497.6	1859.2	2113.0	2136.3	2255.2	2381.4	1769.0
65°	422.0	412.6	535.7	751.8	1129.0	1691.8	2386.6	2540.6	2554.1	2667.4	2079.3
67.5°	259.8	263.9	321.7	439.0	667.6	1229.5	2358.0	3034.8	2964.0	3018.5	2367.6
70°	195.0	200.3	239.9	300.4	407.0	703.0	1896.3	3154.5	3253.3	3239.2	2455.3
71°	169.7	175.1	216.3	273.4	341.9	542.5	1597.7	3029.1	3263.2	3260.9	2422.3
72.5°	144.6	148.0	180.2	231.5	288.2	380.4	1200.3	2716.7	3124.1	3204.0	2304.3
75°	113.5	116.2	130.6	176.6	226.9	233.6	644.1	2036.7	2565.9	2718.1	1918.4
77.5°	92.6	94.4	101.7	131.2	175.1	165.4	337.9	1325.7	1607.5	1760.7	1130.0
80°	73.5	75.5	79.9	88.9	131.2	118.0	161.2	671.7	776.5	774.9	451.0
82.5°	57.1	57.7	62.9	65.3	89.7	83.7	87.3	284.4	315.1	325.5	162.9
85°	36.0	37.8	55.7	50.0	53.7	49.1	43.1	113.0	139.2	137.2	65.1
87.5°	11.0	11.6	18.8	21.2	23.8	21.5	15.8	33.3	40.6	44.1	16.2
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°	447.2	447.2	447.2	447.2	447.2	447.2	447.2	447.2	447.2	447.2	447.2
2.5°	449.8	447.6	439.8	433.4	427.4	420.8	415.2	413.6	412.2	411.6	411.4
5°	454.1	447.4	432.0	419.4	409.4	400.2	394.4	391.7	389.2	389.2	389.9
7.5°	460.1	448.0	424.2	405.4	392.8	384.1	379.9	379.5	380.1	380.8	380.9
10°	466.7	447.6	412.8	389.4	378.1	374.1	374.4	377.7	380.9	383.4	383.7
12.5°	473.1	445.2	399.4	374.4	367.1	367.9	373.6	381.2	387.4	390.8	391.0
15°	480.3	441.5	383.1	360.1	357.7	363.9	374.4	385.9	395.3	401.0	401.6
17.5°	486.3	435.0	366.1	346.3	349.3	360.7	375.1	390.2	401.6	408.6	409.8
20°	493.1	426.8	348.5	333.1	341.7	357.1	373.6	389.8	401.6	408.4	410.0
22.5°	498.5	415.2	331.7	322.3	334.9	352.7	368.1	381.2	390.8	394.4	396.7
25°	500.7	400.6	315.9	313.4	329.5	345.5	355.9	363.3	366.3	365.9	366.9
27.5°	499.5	383.7	302.2	306.5	322.7	334.3	339.5	338.9	333.5	328.5	330.9
30°	494.5	363.7	290.8	299.3	313.8	320.2	319.5	311.6	301.5	292.0	292.6
32.5°	485.5	342.1	280.2	291.0	301.5	304.3	298.8	288.6	274.0	261.8	260.0
35°	477.9	321.4	270.8	281.6	289.0	287.6	282.4	269.2	256.0	245.2	243.4
37.5°	476.7	303.8	261.8	271.0	275.2	273.2	266.8	255.6	250.8	242.6	241.6
40°	483.1	291.4	252.6	259.8	261.8	260.2	253.1	246.7	251.2	249.2	249.2
42.5°	500.5	284.8	244.4	248.5	250.2	251.3	246.3	240.9	246.3	237.2	234.1
45°	528.1	285.0	236.9	237.6	242.3	246.6	243.1	235.1	232.3	213.9	210.3
47.5°	568.8	291.8	230.9	227.1	235.8	242.7	238.0	226.3	213.9	201.7	199.5
50°	616.3	304.0	225.5	216.3	226.9	238.0	234.4	220.7	207.9	200.4	199.1
52.5°	669.0	319.5	218.9	204.3	216.1	235.8	235.1	219.9	202.3	197.3	196.1
55°	734.1	334.7	210.7	190.3	206.5	234.0	232.9	213.3	201.1	197.5	197.1
57.5°	809.8	356.7	198.9	176.0	195.5	226.5	224.3	209.3	197.1	194.5	194.3
60°	931.8	391.0	182.0	163.0	184.2	213.5	216.3	202.5	190.7	190.0	189.9
62.5°	1092.1	439.0	164.7	149.6	171.2	196.7	204.7	193.2	183.8	186.9	187.3
65°	1313.6	479.5	146.6	138.2	156.8	180.5	193.7	184.6	176.3	182.0	182.0
67.5°	1458.1	480.3	130.2	126.4	142.2	166.9	182.0	174.5	166.5	176.3	176.6
70°	1428.0	420.8	116.6	113.9	128.0	152.2	169.2	163.3	154.0	162.9	159.7
71°	1379.6	387.7	111.2	109.2	122.4	145.2	163.3	158.2	149.0	154.8	153.0
72.5°	1302.3	336.7	102.3	102.7	113.9	136.4	154.8	149.6	140.4	143.6	143.0
75°	1100.7	294.0	87.5	89.3	98.0	121.4	138.0	134.0	124.6	124.6	123.9
77.5°	688.2	205.5	72.7	73.7	83.2	104.0	118.5	115.2	106.2	103.1	102.3
80°	256.7	106.2	56.8	58.1	63.9	81.9	98.1	94.9	85.7	82.3	79.1
82.5°	97.2	53.2	41.9	40.9	47.1	62.5	76.9	73.1	65.9	57.7	55.3
85°	36.6	26.5	25.6	24.8	27.6	37.0	47.7	46.9	39.2	33.4	32.9
87.5°	9.6	8.6	10.0	7.4	7.8	7.0	7.2	3.0	1.4	0.6	0.4
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)