

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: P526087

Luminaire Tested: **GALN-SA1A-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526087  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2563 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

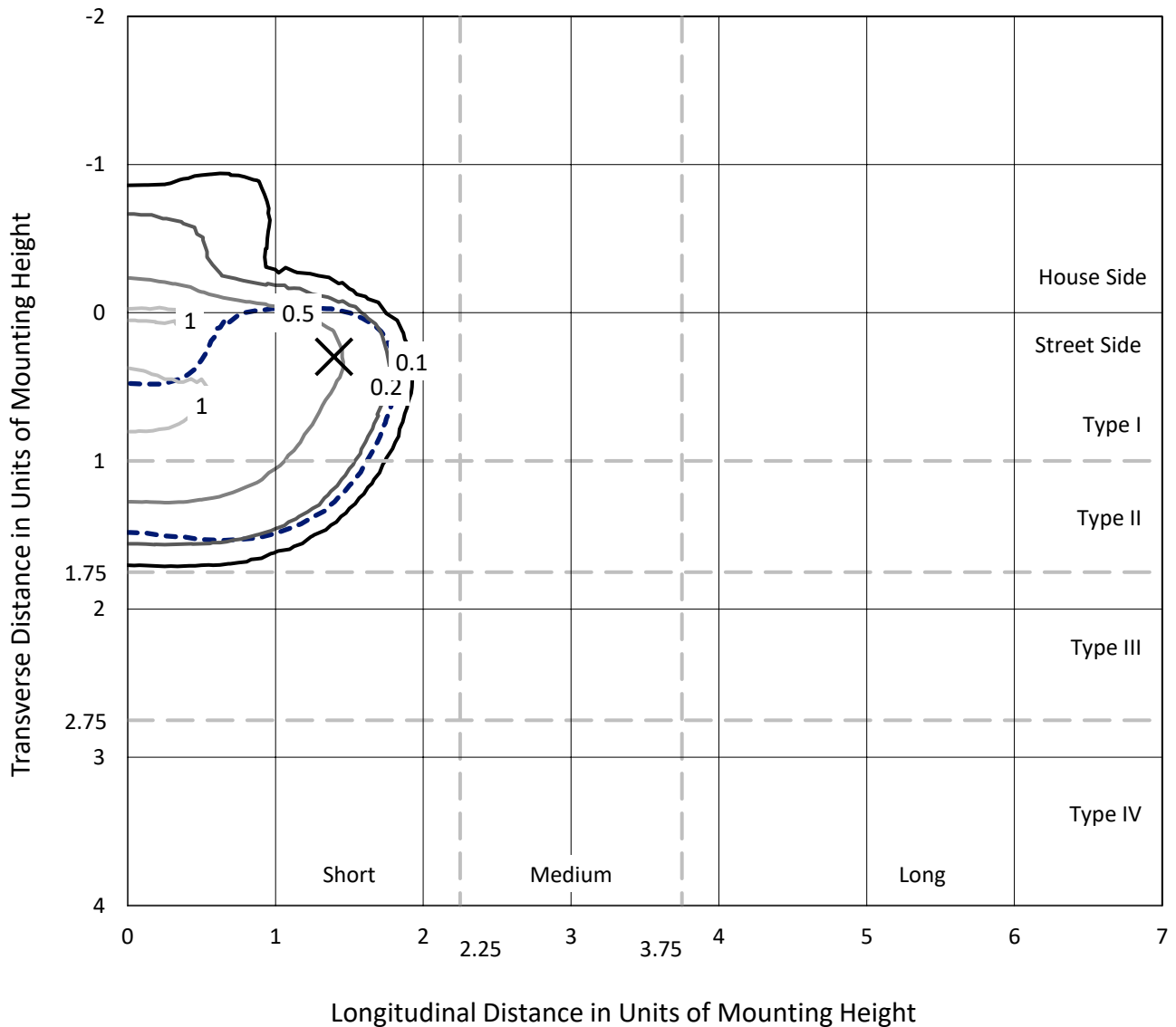
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

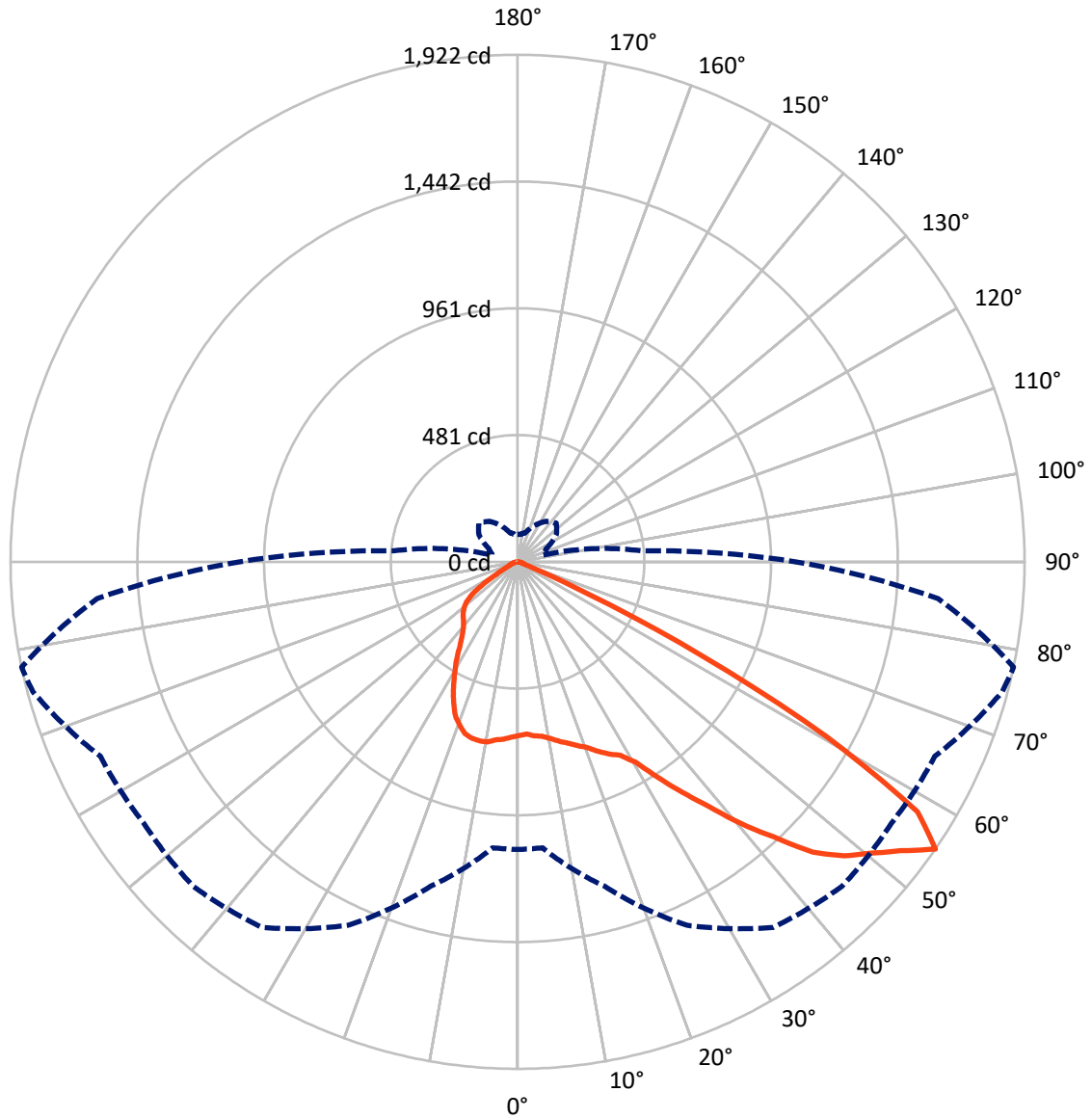
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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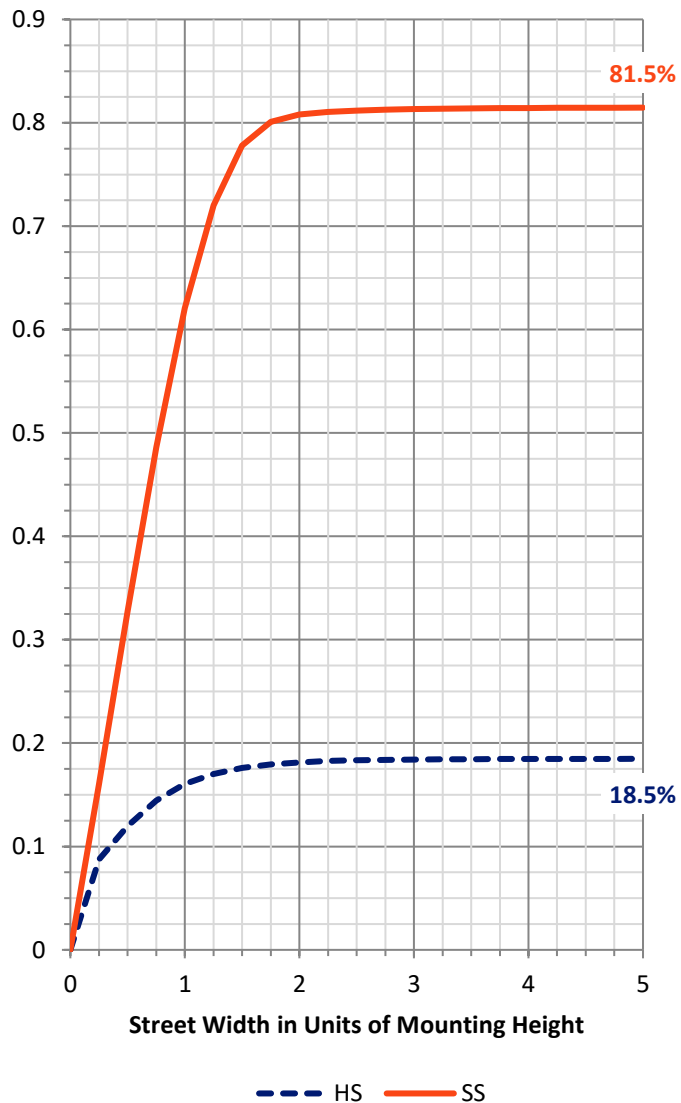
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	476.0	0.0	476.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	2087.0	0.0	2087.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	2563.0	0.0	2563.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.8	2.3
10°-20°	155.5	6.1
20°-30°	272.6	10.6
30°-40°	449.4	17.5
40°-50°	654.0	25.5
50°-60°	741.0	28.9
60°-70°	211.9	8.3
70°-80°	16.4	0.6
80°-90°	3.4	0.1
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°	2563.0	100.0
0°-180°	2563.0	100.0

**Coefficient of Utilization**

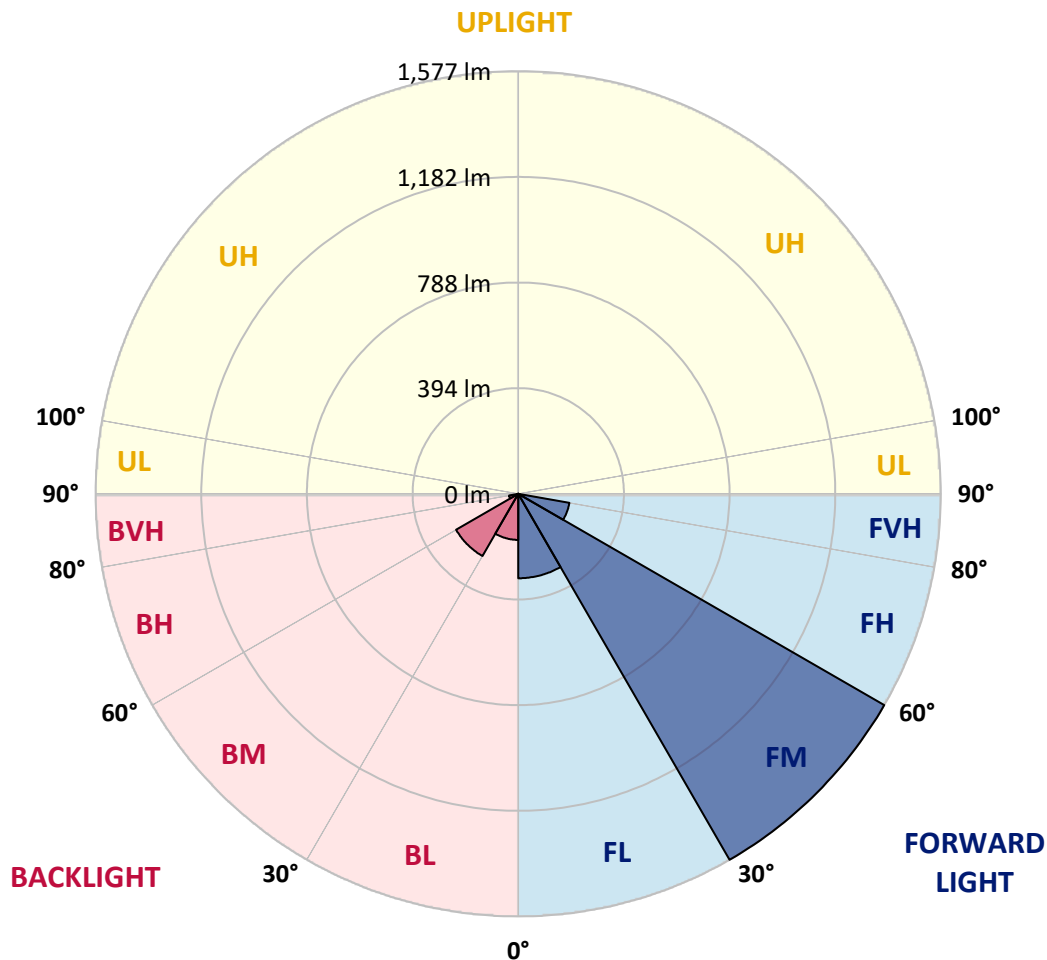


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.1	12.3			
FM (30°-60°)	1576.6	61.5			
FH (60°-80°)	193.6	7.6			G0/660
FVH (80°-90°)	1.7	0.1			G0/10
BL (0°-30°)	171.8	6.7	B1/500		
BM (30°-60°)	267.8	10.4	B1/1000		
BH (60°-80°)	34.7	1.4	B0/110		G0/110
BVH (80°-90°)	1.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9
2.5°	619.5	625.5	626.4	633.7	633.3	645.7	649.3	649.8	658.0	653.9	664.4
5°	602.1	598.9	597.5	610.4	614.0	625.0	634.2	639.7	656.7	662.6	673.6
7.5°	586.5	586.5	587.5	598.9	597.5	611.8	621.4	638.3	663.1	668.1	681.4
10°	571.4	565.9	572.8	584.7	594.8	601.2	621.4	637.4	666.3	680.9	699.3
12.5°	563.6	566.4	567.3	576.0	587.0	606.3	617.2	643.8	689.2	697.9	717.6
15°	612.7	607.2	593.9	586.1	595.3	604.4	631.9	658.9	701.1	713.5	735.5
17.5°	669.5	664.9	653.9	632.8	612.2	629.2	650.7	675.4	713.9	732.3	764.8
20°	743.7	736.4	725.4	684.2	666.3	648.0	670.9	700.2	735.0	751.5	785.0
22.5°	832.2	832.2	807.4	757.5	720.4	702.9	712.6	729.5	758.4	780.8	813.8
25°	924.3	921.5	899.1	847.3	784.5	763.9	774.9	786.8	794.6	807.0	829.0
27.5°	1029.7	1013.6	985.2	927.9	872.5	832.6	844.5	834.0	824.4	830.8	862.4
30°	1101.2	1111.2	1075.0	1020.0	967.8	923.4	925.6	916.5	872.5	881.7	900.4
32.5°	1175.4	1181.8	1161.6	1131.4	1079.2	1027.4	1008.6	1000.8	967.8	971.9	953.6
35°	1237.2	1249.6	1231.7	1218.5	1203.3	1161.6	1109.9	1135.1	1081.9	1071.8	1024.2
37.5°	1294.1	1290.4	1311.5	1297.7	1294.5	1265.2	1208.4	1213.4	1177.7	1175.4	1120.4
40°	1344.9	1345.9	1374.7	1381.1	1368.3	1316.1	1233.6	1273.4	1302.3	1305.1	1234.5
42.5°	1387.1	1399.5	1424.2	1476.0	1456.7	1369.7	1259.7	1303.2	1410.5	1427.4	1342.6
45°	1423.8	1449.0	1479.7	1525.9	1514.9	1445.7	1324.8	1364.6	1525.9	1570.4	1444.4
47.5°	1426.0	1459.0	1492.5	1561.2	1575.0	1486.5	1392.1	1461.8	1617.6	1665.7	1518.6
50°	1416.9	1434.3	1501.2	1575.9	1607.0	1553.0	1486.5	1543.4	1706.5	1736.7	1556.2
52.5°	1308.3	1321.6	1455.8	1589.6	1664.8	1628.1	1611.6	1657.0	1797.2	1819.7	1591.5
55°	1090.6	1088.3	1273.0	1520.4	1691.4	1739.5	1729.4	1745.4	1902.2	1922.3	1600.2
57.5°	746.0	787.7	947.2	1266.1	1528.7	1713.4	1723.9	1697.3	1779.8	1787.6	1394.9
60°	402.3	419.7	548.1	845.0	1163.9	1396.3	1423.8	1375.6	1369.2	1347.2	995.8
62.5°	159.9	168.6	241.5	418.4	634.2	848.7	907.8	888.1	845.9	788.2	515.5
65°	76.1	81.6	120.1	195.7	281.4	353.8	412.9	431.2	318.0	286.4	170.0
67.5°	51.8	55.9	87.5	111.8	100.4	104.9	136.6	126.9	74.7	63.7	47.2
70°	39.4	42.2	70.1	76.1	44.9	31.6	35.3	33.0	30.7	31.2	30.7
72.5°	28.0	30.2	51.3	44.9	19.7	14.7	18.8	22.5	22.5	22.5	22.0
75°	17.0	19.2	29.8	17.4	7.8	7.8	11.9	15.1	16.0	16.5	15.6
77.5°	8.7	11.0	10.1	5.0	5.0	6.0	8.7	10.5	11.5	11.5	11.0
80°	1.8	1.8	1.8	2.7	5.0	6.4	8.7	9.6	11.0	11.0	10.1
82.5°	0.0	0.5	1.4	2.7	4.6	6.0	8.2	9.6	11.0	11.5	10.5
85°	0.0	0.5	0.9	1.8	3.2	3.7	3.2	2.7	2.7	2.7	2.7
87.5°	0.0	0.0	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9
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°	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9
2.5°	665.4	666.7	664.4	664.0	662.2	667.7	654.4	651.2	659.4	651.6	653.4
5°	674.1	677.3	673.2	666.3	656.2	640.6	627.3	609.9	601.7	595.7	594.8
7.5°	680.5	682.8	678.7	656.7	626.4	587.0	557.7	536.1	519.2	514.1	505.9
10°	706.6	707.1	686.4	637.9	578.8	527.0	482.1	449.1	432.1	421.6	417.0
12.5°	724.0	723.1	681.4	600.8	521.9	453.2	401.9	362.0	346.4	341.4	338.2
15°	746.0	741.0	669.5	562.7	448.6	374.4	328.1	300.6	299.2	296.0	299.2
17.5°	763.4	749.2	652.1	493.5	378.5	308.4	278.2	280.0	283.7	286.9	287.3
20°	791.8	762.5	612.2	433.0	313.4	264.4	263.9	272.2	281.4	285.0	288.7
22.5°	813.4	768.0	569.6	368.4	260.3	246.5	254.3	266.7	273.6	277.2	282.7
25°	821.2	752.9	512.8	303.8	234.6	238.3	250.2	258.4	267.2	271.3	269.0
27.5°	829.0	745.1	445.0	250.2	220.9	232.8	242.9	251.1	253.9	259.4	263.0
30°	847.7	718.1	384.0	216.3	214.0	229.1	236.5	239.2	246.5	249.7	249.7
32.5°	862.9	707.5	319.4	200.3	213.1	231.0	231.9	231.9	232.8	230.5	229.6
35°	894.0	671.3	261.7	190.6	212.6	231.4	233.7	225.9	204.8	196.6	194.3
37.5°	932.5	648.0	219.0	188.3	215.8	236.9	240.6	211.2	183.8	170.5	168.2
40°	979.3	631.5	191.1	187.4	223.2	249.7	238.7	199.8	164.0	144.8	143.9
42.5°	1033.8	616.3	172.3	187.0	232.3	263.0	236.9	190.2	143.9	131.1	132.9
45°	1077.3	608.1	159.5	183.8	235.5	270.8	238.3	173.2	135.6	127.4	128.3
47.5°	1111.2	590.7	148.9	178.3	235.1	273.6	225.9	166.3	131.5	133.8	136.1
50°	1112.1	567.3	135.6	166.3	228.2	268.5	211.7	159.9	130.6	140.2	144.8
52.5°	1099.8	534.3	121.4	149.4	212.2	251.1	198.9	157.2	126.5	125.6	131.1
55°	1055.8	472.4	97.6	121.0	179.2	207.1	187.4	152.1	114.1	103.6	104.5
57.5°	853.2	338.6	71.9	86.6	126.9	151.7	169.1	149.8	102.6	88.0	88.4
60°	528.4	192.0	52.7	59.1	78.4	92.1	137.0	139.3	91.6	74.2	73.3
62.5°	271.3	94.9	40.8	41.7	48.1	54.1	93.9	116.9	82.9	70.6	70.6
65°	90.7	46.7	35.7	32.1	32.1	33.5	56.8	81.1	70.1	59.1	59.1
67.5°	39.0	34.8	31.2	28.0	25.7	24.3	32.1	47.2	52.2	44.9	43.1
70°	30.2	29.3	27.0	23.4	20.2	18.3	18.8	24.3	29.8	28.9	28.0
72.5°	22.5	22.5	21.5	18.3	15.6	13.3	12.4	12.8	14.2	14.7	15.1
75°	15.6	16.0	16.0	14.2	11.5	9.6	8.2	6.9	5.5	4.6	4.1
77.5°	10.5	11.0	11.9	10.5	8.7	6.4	5.0	3.7	2.3	0.9	0.9
80°	9.2	10.5	11.5	10.5	9.2	6.9	5.0	2.7	1.4	0.0	0.0
82.5°	9.6	10.5	11.9	10.1	8.7	6.4	5.0	3.2	1.4	0.5	0.0
85°	2.3	2.3	2.7	3.2	4.1	4.6	3.7	2.3	1.4	0.5	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.0	0.0
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)