

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: P526243

Luminaire Tested: **GALN-SA1A-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526243
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-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 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: 2236 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

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



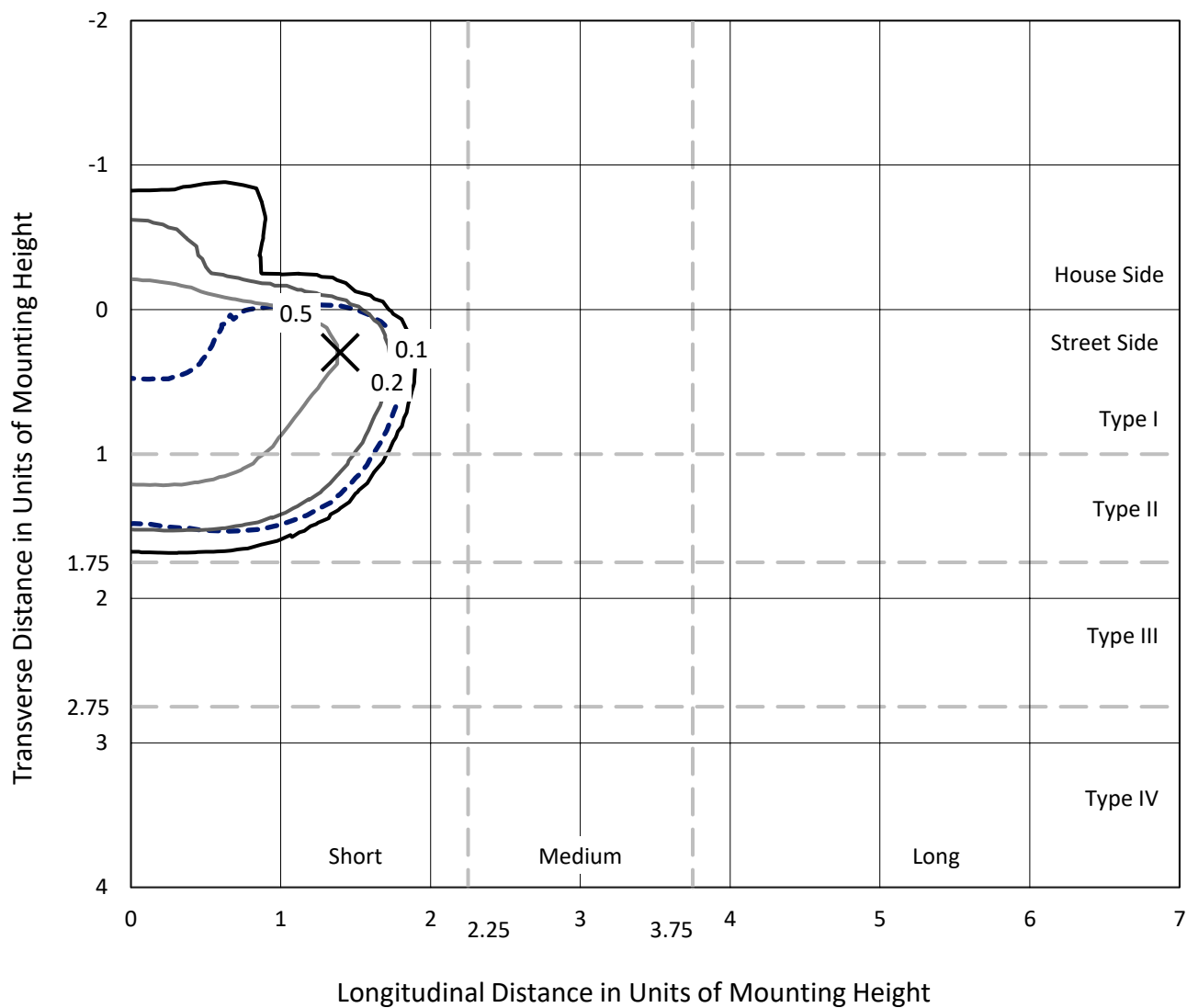
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

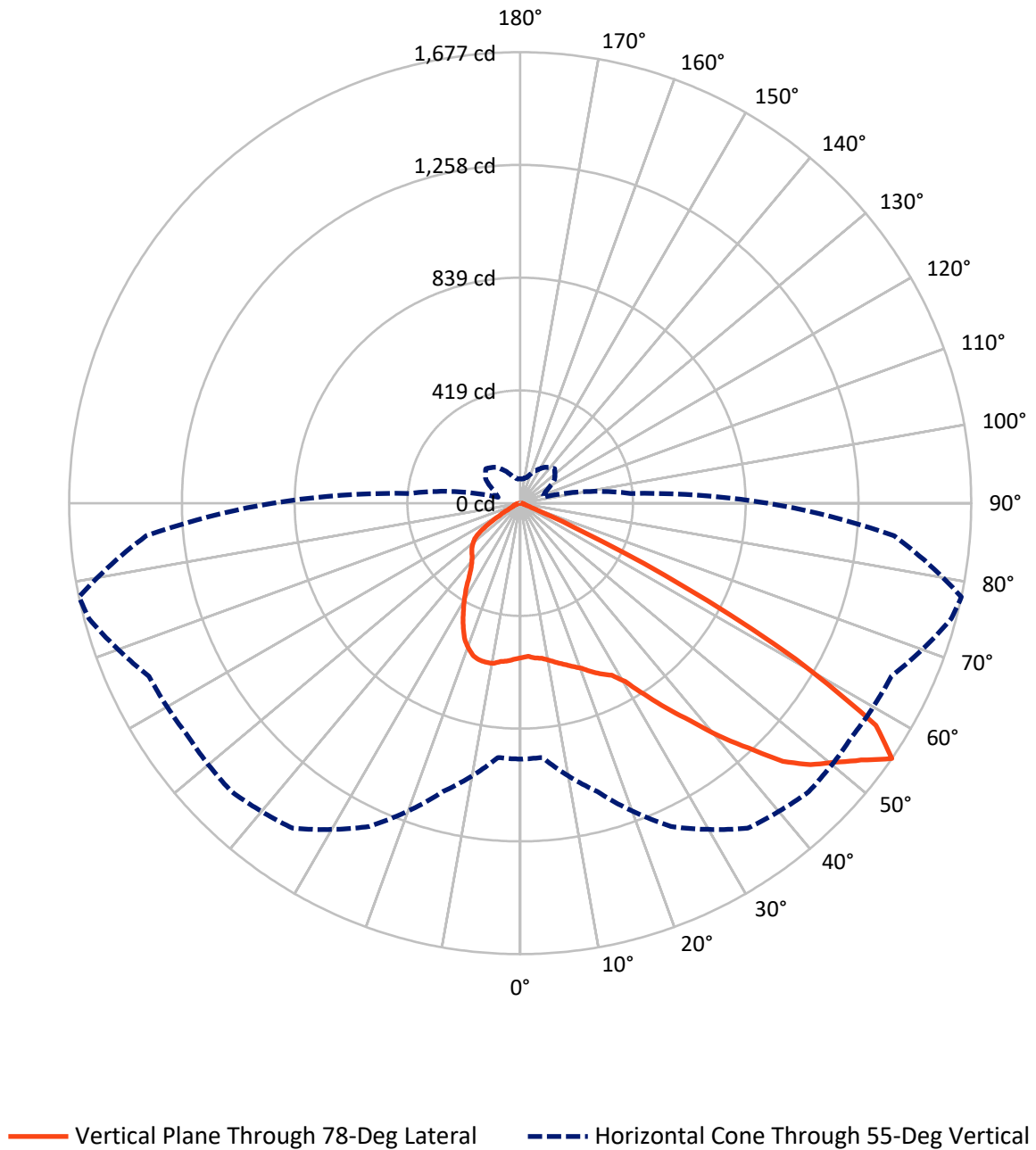


Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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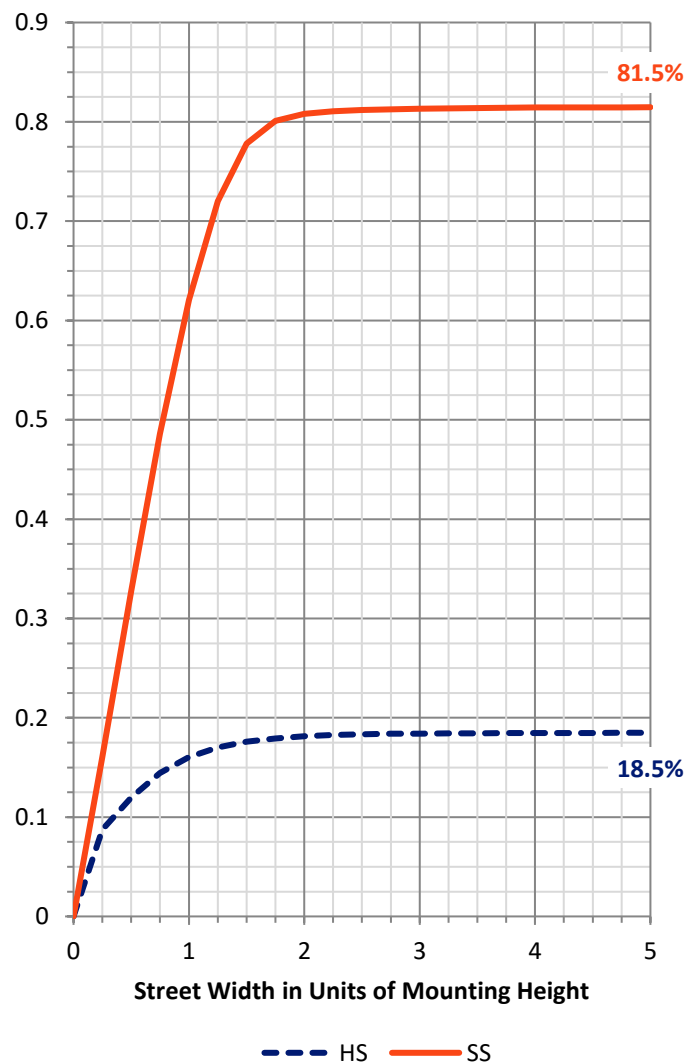
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	415.3	0.0	415.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	1820.7	0.0	1820.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	2236.0	0.0	2236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	2.3
10°-20°	135.7	6.1
20°-30°	237.8	10.6
30°-40°	392.1	17.5
40°-50°	570.5	25.5
50°-60°	646.5	28.9
60°-70°	184.9	8.3
70°-80°	14.4	0.6
80°-90°	3.0	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°	2236.0	100.0
0°-180°	2236.0	100.0

Coefficient of Utilization



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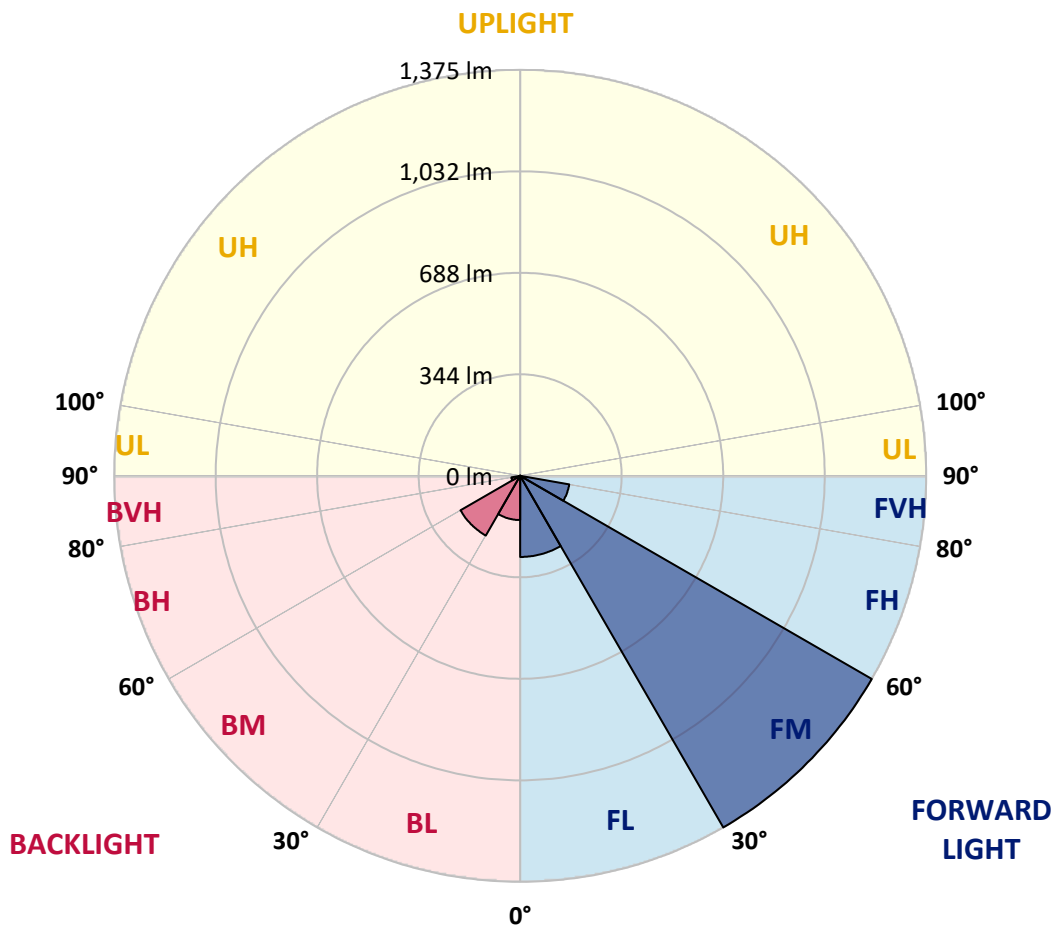
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.9	12.3			
FM	(30°-60°)	1375.5	61.5			
FH	(60°-80°)	168.9	7.6			G0/660
FVH	(80°-90°)	1.5	0.1			G0/10
BL	(0°-30°)	149.9	6.7	B1/500		
BM	(30°-60°)	233.6	10.4	B1/1000		
BH	(60°-80°)	30.3	1.4	B0/110		G0/110
BVH	(80°-90°)	1.5	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°	574.9	574.9	574.9	574.9	574.9	574.9	574.9	574.9	574.9	574.9	574.9
2.5°	540.5	545.7	546.5	552.9	552.5	563.3	566.5	566.9	574.1	570.5	579.7
5°	525.3	522.5	521.3	532.5	535.7	545.3	553.3	558.1	572.9	578.1	587.7
7.5°	511.7	511.7	512.5	522.5	521.3	533.7	542.1	556.9	578.5	582.9	594.5
10°	498.5	493.7	499.7	510.1	518.9	524.5	542.1	556.1	581.3	594.1	610.1
12.5°	491.7	494.1	494.9	502.5	512.1	528.9	538.5	561.7	601.3	608.9	626.0
15°	534.5	529.7	518.1	511.3	519.3	527.3	551.3	574.9	611.7	622.5	641.6
17.5°	584.1	580.1	570.5	552.1	534.1	548.9	567.7	589.3	622.8	638.8	667.2
20°	648.8	642.4	632.8	596.9	581.3	565.3	585.3	610.9	641.2	655.6	684.8
22.5°	726.0	726.0	704.4	660.8	628.4	613.3	621.7	636.4	661.6	681.2	710.0
25°	806.3	803.9	784.4	739.2	684.4	666.4	676.0	686.4	693.2	704.0	723.2
27.5°	898.3	884.3	859.5	809.5	761.2	726.4	736.8	727.6	719.2	724.8	752.4
30°	960.7	969.5	937.9	889.9	844.3	805.5	807.5	799.6	761.2	769.2	785.6
32.5°	1025.4	1031.0	1013.4	987.0	941.5	896.3	879.9	873.1	844.3	847.9	831.9
35°	1079.4	1090.2	1074.6	1063.0	1049.8	1013.4	968.3	990.2	943.9	935.1	893.5
37.5°	1129.0	1125.8	1144.2	1132.2	1129.4	1103.8	1054.2	1058.6	1027.4	1025.4	977.5
40°	1173.3	1174.1	1199.3	1204.9	1193.7	1148.2	1076.2	1111.0	1136.2	1138.6	1077.0
42.5°	1210.1	1220.9	1242.5	1287.7	1270.9	1194.9	1099.0	1137.0	1230.5	1245.3	1171.3
45°	1242.1	1264.1	1290.9	1331.3	1321.7	1261.3	1155.8	1190.5	1331.3	1370.0	1260.1
47.5°	1244.1	1272.9	1302.1	1362.0	1374.0	1296.9	1214.5	1275.3	1411.2	1453.2	1324.9
50°	1236.1	1251.3	1309.7	1374.8	1402.0	1354.8	1296.9	1346.4	1488.8	1515.1	1357.6
52.5°	1141.4	1153.0	1270.1	1386.8	1452.4	1420.4	1406.0	1445.6	1567.9	1587.5	1388.4
55°	951.5	949.5	1110.6	1326.5	1475.6	1517.5	1508.8	1522.7	1659.5	1677.1	1396.0
57.5°	650.8	687.2	826.3	1104.6	1333.7	1494.8	1504.0	1480.8	1552.7	1559.5	1216.9
60°	351.0	366.2	478.1	737.2	1015.4	1218.1	1242.1	1200.1	1194.5	1175.3	868.7
62.5°	139.5	147.1	210.7	365.0	553.3	740.4	792.0	774.8	738.0	687.6	449.7
65°	66.4	71.2	104.7	170.7	245.5	308.6	360.2	376.2	277.4	249.9	148.3
67.5°	45.2	48.8	76.4	97.5	87.6	91.5	119.1	110.7	65.2	55.6	41.2
70°	34.4	36.8	61.2	66.4	39.2	27.6	30.8	28.8	26.8	27.2	26.8
72.5°	24.4	26.4	44.8	39.2	17.2	12.8	16.4	19.6	19.6	19.6	19.2
75°	14.8	16.8	26.0	15.2	6.8	6.8	10.4	13.2	14.0	14.4	13.6
77.5°	7.6	9.6	8.8	4.4	4.4	5.2	7.6	9.2	10.0	10.0	9.6
80°	1.6	1.6	1.6	2.4	4.4	5.6	7.6	8.4	9.6	9.6	8.8
82.5°	0.0	0.4	1.2	2.4	4.0	5.2	7.2	8.4	9.6	10.0	9.2
85°	0.0	0.4	0.8	1.6	2.8	3.2	2.8	2.4	2.4	2.4	2.4
87.5°	0.0	0.0	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8
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°	574.9	574.9	574.9	574.9	574.9	574.9	574.9	574.9	574.9	574.9	574.9
2.5°	580.5	581.7	579.7	579.3	577.7	582.5	570.9	568.1	575.3	568.5	570.1
5°	588.1	590.9	587.3	581.3	572.5	558.9	547.3	532.1	524.9	519.7	518.9
7.5°	593.7	595.7	592.1	572.9	546.5	512.1	486.5	467.7	452.9	448.5	441.4
10°	616.5	616.9	598.9	556.5	504.9	459.7	420.6	391.8	377.0	367.8	363.8
12.5°	631.6	630.8	594.5	524.1	455.3	395.4	350.6	315.8	302.2	297.8	295.0
15°	650.8	646.4	584.1	490.9	391.4	326.6	286.2	262.3	261.1	258.3	261.1
17.5°	666.0	653.6	568.9	430.6	330.2	269.0	242.7	244.3	247.5	250.3	250.7
20°	690.8	665.2	534.1	377.8	273.4	230.7	230.3	237.5	245.5	248.7	251.9
22.5°	709.6	670.0	496.9	321.4	227.1	215.1	221.9	232.7	238.7	241.9	246.7
25°	716.4	656.8	447.3	265.1	204.7	207.9	218.3	225.5	233.1	236.7	234.7
27.5°	723.2	650.0	388.2	218.3	192.7	203.1	211.9	219.1	221.5	226.3	229.5
30°	739.6	626.4	335.0	188.7	186.7	199.9	206.3	208.7	215.1	217.9	217.9
32.5°	752.8	617.3	278.6	174.7	185.9	201.5	202.3	202.3	203.1	201.1	200.3
35°	780.0	585.7	228.3	166.3	185.5	201.9	203.9	197.1	178.7	171.5	169.5
37.5°	813.5	565.3	191.1	164.3	188.3	206.7	209.9	184.3	160.3	148.7	146.7
40°	854.3	550.9	166.7	163.5	194.7	217.9	208.3	174.3	143.1	126.3	125.5
42.5°	901.9	537.7	150.3	163.1	202.7	229.5	206.7	165.9	125.5	114.3	115.9
45°	939.9	530.5	139.1	160.3	205.5	236.3	207.9	151.1	118.3	111.1	111.9
47.5°	969.5	515.3	129.9	155.5	205.1	238.7	197.1	145.1	114.7	116.7	118.7
50°	970.3	494.9	118.3	145.1	199.1	234.3	184.7	139.5	113.9	122.3	126.3
52.5°	959.5	466.1	105.9	130.3	185.1	219.1	173.5	137.1	110.3	109.5	114.3
55°	921.1	412.2	85.2	105.5	156.3	180.7	163.5	132.7	99.5	90.3	91.1
57.5°	744.4	295.4	62.8	75.6	110.7	132.3	147.5	130.7	89.5	76.8	77.2
60°	460.9	167.5	46.0	51.6	68.4	80.4	119.5	121.5	80.0	64.8	64.0
62.5°	236.7	82.8	35.6	36.4	42.0	47.2	82.0	101.9	72.4	61.6	61.6
65°	79.2	40.8	31.2	28.0	28.0	29.2	49.6	70.8	61.2	51.6	51.6
67.5°	34.0	30.4	27.2	24.4	22.4	21.2	28.0	41.2	45.6	39.2	37.6
70°	26.4	25.6	23.6	20.4	17.6	16.0	16.4	21.2	26.0	25.2	24.4
72.5°	19.6	19.6	18.8	16.0	13.6	11.6	10.8	11.2	12.4	12.8	13.2
75°	13.6	14.0	14.0	12.4	10.0	8.4	7.2	6.0	4.8	4.0	3.6
77.5°	9.2	9.6	10.4	9.2	7.6	5.6	4.4	3.2	2.0	0.8	0.8
80°	8.0	9.2	10.0	9.2	8.0	6.0	4.4	2.4	1.2	0.0	0.0
82.5°	8.4	9.2	10.4	8.8	7.6	5.6	4.4	2.8	1.2	0.4	0.0
85°	2.0	2.0	2.4	2.8	3.6	4.0	3.2	2.0	1.2	0.4	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	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)