

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: P450342

Luminaire Tested: **GALN-SA1A-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3395 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

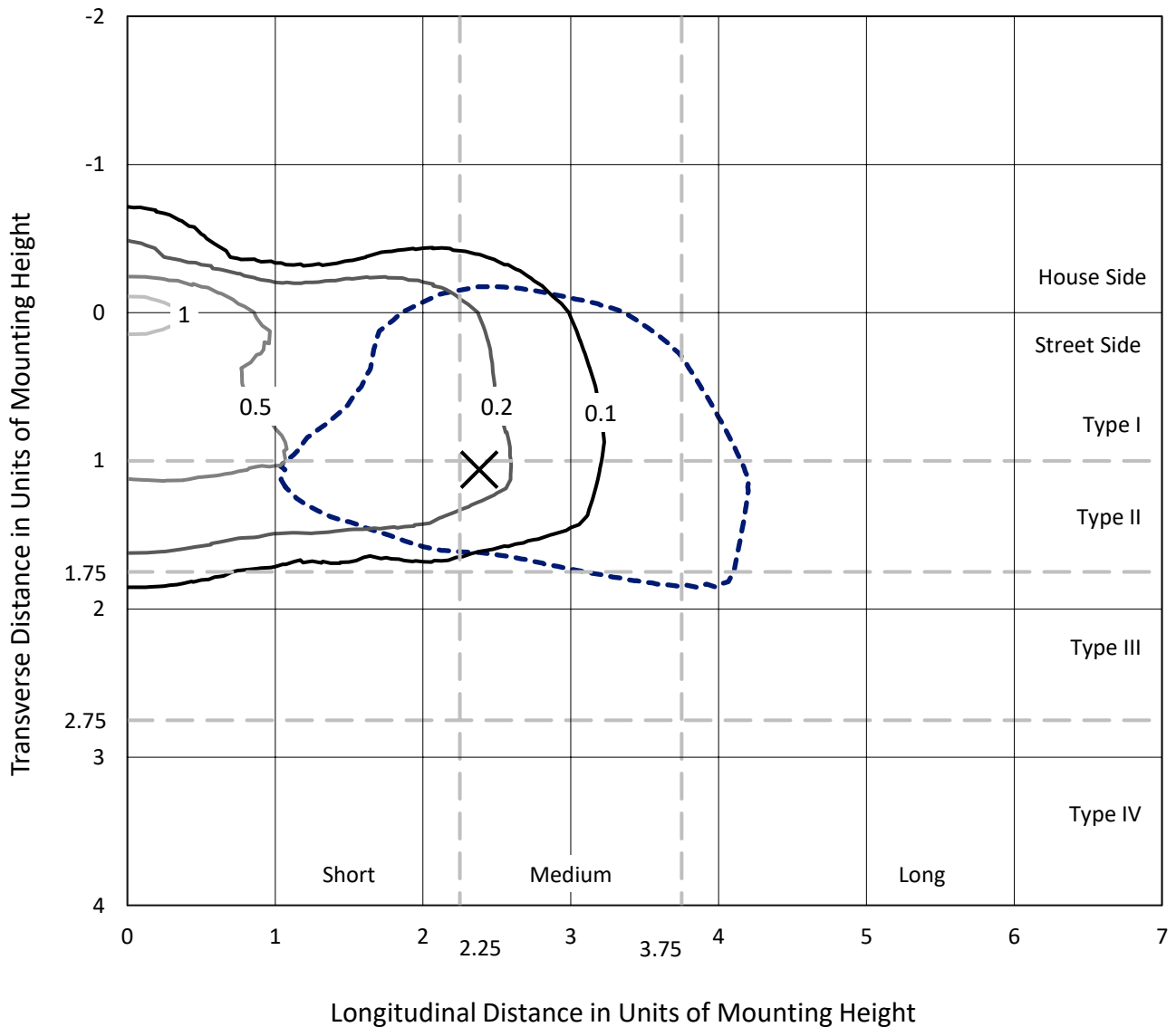
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

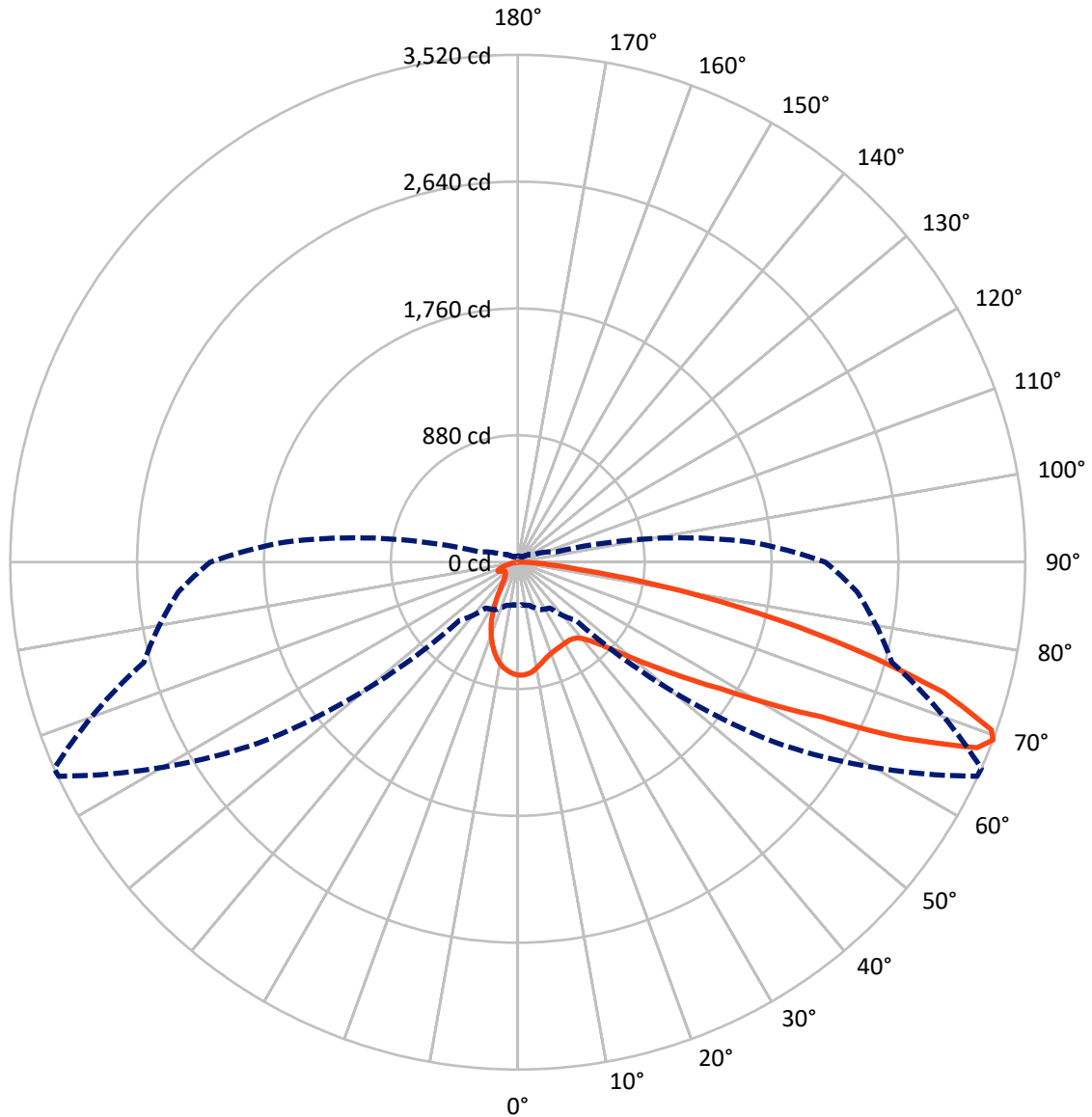
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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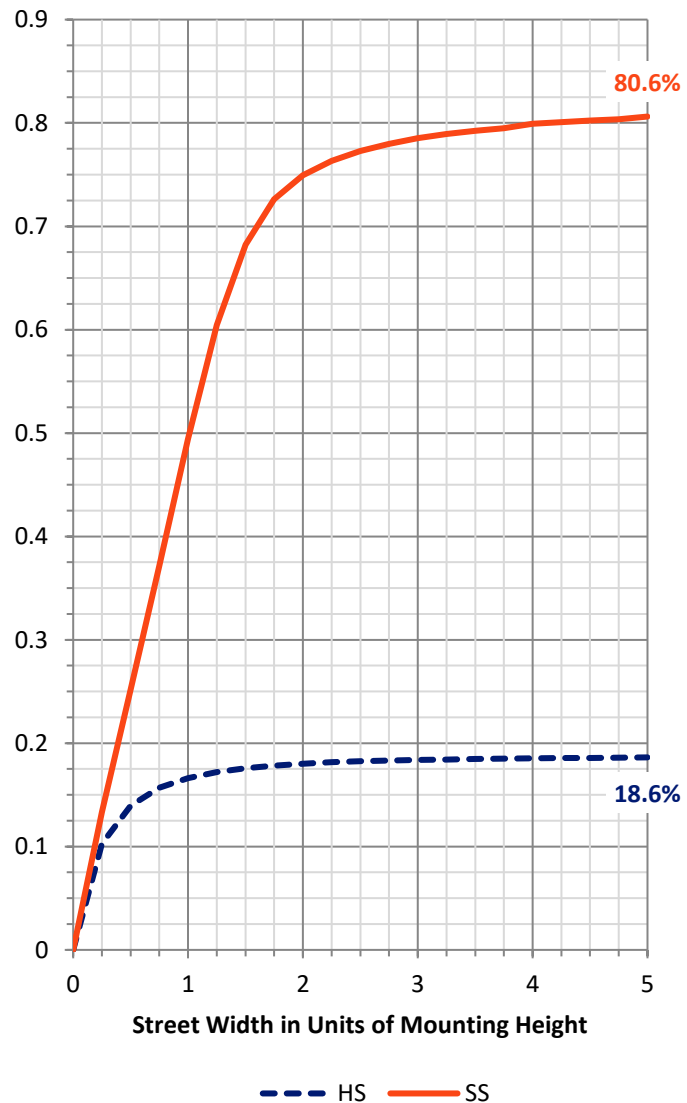
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	638.5	0.0	638.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	2756.5	0.0	2756.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	3395.0	0.0	3395.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	2.0
10°-20°	161.5	4.8
20°-30°	219.8	6.5
30°-40°	295.4	8.7
40°-50°	441.1	13.0
50°-60°	701.6	20.7
60°-70°	863.0	25.4
70°-80°	561.5	16.5
80°-90°	82.9	2.4
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°	3395.0	100.0
0°-180°	3395.0	100.0



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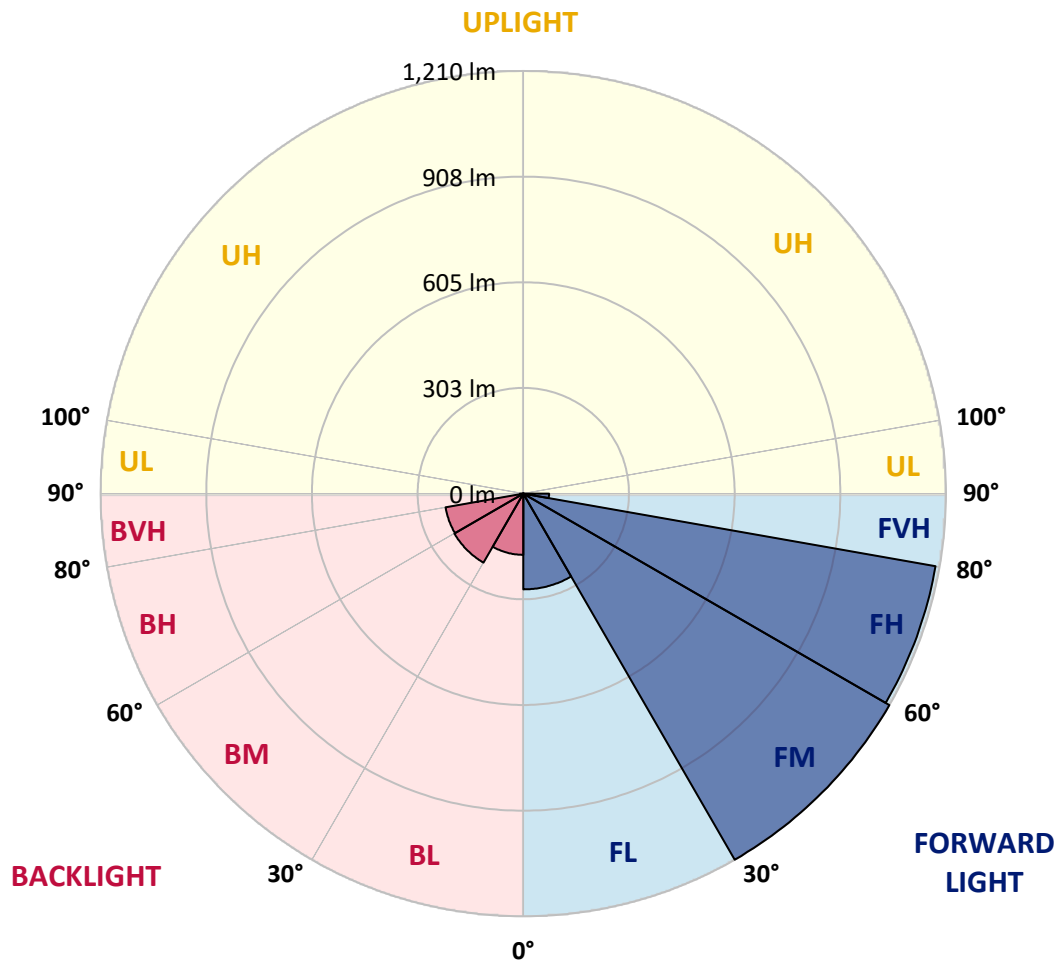
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.1	8.1			
FM	(30°-60°)	1210.2	35.6			
FH	(60°-80°)	1198.5	35.3			G1/1800
FVH	(80°-90°)	73.7	2.2			G1/100
BL	(0°-30°)	175.3	5.2	B1/500		
BM	(30°-60°)	228.0	6.7	B1/1000		
BH	(60°-80°)	226.1	6.7	B1/500		G1/500
BVH	(80°-90°)	9.2	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0
2.5°	756.6	759.6	762.9	766.7	773.8	777.8	780.6	783.8	784.2	785.9	784.6
5°	700.7	704.3	709.4	716.5	727.2	744.0	761.3	775.4	777.0	784.9	787.2
7.5°	654.1	656.2	660.3	671.8	687.0	705.6	730.8	759.4	763.5	782.3	788.9
10°	616.1	618.2	623.1	634.9	649.9	673.3	700.9	738.5	741.9	774.2	789.3
12.5°	587.7	589.6	594.9	606.5	623.8	645.6	676.1	715.9	720.8	763.5	785.7
15°	566.1	569.7	574.0	583.6	601.8	622.9	652.4	695.3	699.2	752.2	783.2
17.5°	556.9	558.6	561.6	570.4	583.8	604.5	634.2	679.1	683.8	744.3	782.7
20°	557.3	559.0	559.5	564.4	574.0	591.9	621.2	666.3	671.9	737.4	783.6
22.5°	570.0	570.2	568.2	566.5	570.2	585.1	612.0	656.7	663.3	734.4	784.4
25°	589.8	593.2	590.2	582.3	575.3	582.5	608.4	651.5	657.7	730.0	783.4
27.5°	621.7	622.3	619.9	609.2	591.1	585.8	606.9	647.5	652.8	726.8	778.7
30°	664.6	662.9	660.7	648.8	620.4	598.8	610.1	643.9	649.4	722.1	773.1
32.5°	708.0	713.3	711.2	697.3	660.5	624.0	620.4	643.6	648.1	718.6	766.9
35°	754.1	756.6	766.3	759.2	721.4	664.8	639.8	649.4	653.0	718.8	762.6
37.5°	790.2	796.8	819.7	825.9	790.4	718.8	671.2	665.9	667.4	728.0	764.3
40°	833.8	845.1	874.6	900.0	876.7	788.9	724.6	696.6	698.5	750.2	775.4
42.5°	889.1	897.0	936.7	971.1	967.3	881.6	789.3	746.8	747.7	794.3	806.4
45°	953.8	965.1	1009.6	1061.3	1070.2	986.5	882.7	822.7	822.2	863.0	864.3
47.5°	1036.5	1043.5	1087.6	1144.0	1179.8	1118.3	996.1	931.8	925.8	963.0	952.3
50°	1112.6	1123.5	1157.0	1218.7	1307.6	1272.6	1145.2	1073.2	1059.1	1093.8	1075.8
52.5°	1144.6	1156.1	1184.3	1260.8	1417.2	1472.3	1334.5	1241.8	1218.3	1245.0	1238.4
55°	1089.1	1104.0	1130.3	1223.4	1465.3	1702.6	1589.8	1436.8	1419.7	1408.2	1410.1
57.5°	940.0	954.1	989.7	1092.3	1407.8	1869.8	1954.4	1687.4	1650.7	1597.9	1606.9
60°	715.6	724.4	742.8	856.6	1237.3	1913.2	2368.4	2004.2	1980.9	1786.8	1793.2
62.5°	508.2	518.2	530.9	587.7	905.8	1790.8	2692.5	2446.6	2363.3	1982.6	1976.4
65°	412.7	405.9	421.3	447.8	531.5	1387.9	2765.4	3060.6	2945.9	2240.3	2154.2
67.5°	339.4	332.2	347.4	394.6	404.2	805.6	2502.6	3459.2	3436.3	2520.6	2334.9
69°	300.4	296.7	310.0	363.8	388.1	572.1	2180.2	3514.7	3520.1	2685.9	2362.7
70°	270.7	272.2	285.2	348.2	380.7	471.7	1863.4	3438.1	3484.4	2768.4	2332.6
72.5°	199.3	202.5	220.5	288.4	373.8	400.3	1108.9	3003.1	3084.9	2773.3	2133.9
75°	139.3	137.8	153.8	217.2	353.1	396.7	651.3	2322.5	2415.2	2397.1	1793.0
77.5°	91.2	93.6	106.4	153.4	297.1	393.7	424.5	1647.7	1707.9	1603.2	1060.6
80°	64.3	64.1	71.3	104.7	220.3	378.3	347.6	1038.6	1023.3	630.0	314.5
82.5°	36.8	39.5	47.8	73.7	147.4	333.0	319.8	496.7	453.5	179.5	106.2
85°	20.5	21.4	28.4	44.6	86.1	250.8	279.2	226.0	213.2	75.0	45.7
87.5°	6.6	7.1	11.8	22.6	39.1	118.4	158.1	104.3	96.3	27.1	18.4
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°	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0
2.5°	785.1	787.4	781.4	775.5	770.3	762.9	756.4	750.9	747.1	746.6	744.7
5°	787.8	787.9	776.5	761.1	746.0	729.5	712.4	700.1	688.7	682.3	679.1
7.5°	789.6	787.9	767.3	742.3	713.3	683.2	653.1	629.1	610.5	603.1	606.0
10°	788.9	783.6	753.4	713.3	671.2	626.3	583.0	549.2	518.2	502.2	502.5
12.5°	784.8	776.1	732.7	680.8	618.9	558.8	492.6	446.9	411.0	389.7	383.2
15°	781.2	766.1	708.4	636.6	559.7	473.8	393.1	336.7	306.6	289.9	289.7
17.5°	777.4	756.6	681.9	589.8	491.6	381.1	296.5	253.4	239.3	241.0	238.2
20°	773.5	745.3	654.3	537.7	408.7	284.3	222.0	204.6	208.5	216.2	217.3
22.5°	769.0	733.2	624.6	480.4	321.5	214.0	180.1	177.5	187.6	199.7	201.4
25°	762.0	718.2	587.2	420.4	248.0	172.4	157.7	159.6	169.6	179.7	180.9
27.5°	752.2	699.6	549.4	345.6	186.3	148.0	144.2	146.6	151.5	157.7	159.2
30°	739.1	678.5	505.9	280.9	149.3	135.7	134.2	135.6	138.4	141.0	141.8
32.5°	725.9	658.2	462.1	215.1	133.1	127.7	126.2	126.2	126.2	126.5	126.7
35°	713.7	639.0	415.1	167.5	124.7	121.3	119.2	116.9	116.6	115.2	115.2
37.5°	706.9	621.6	365.1	140.3	118.4	116.0	113.2	109.4	107.4	107.5	107.2
40°	708.2	610.1	319.6	124.8	113.4	110.7	106.4	102.1	100.8	100.8	100.4
42.5°	723.1	606.3	276.0	116.8	108.5	105.5	100.0	96.1	95.3	95.1	95.5
45°	757.3	615.5	236.9	111.5	104.3	99.8	94.4	90.8	90.1	90.1	89.9
47.5°	824.0	645.4	208.9	108.1	101.3	95.5	89.9	86.3	85.0	84.6	84.6
50°	927.8	710.3	188.0	105.1	97.6	91.6	85.7	81.6	79.5	79.3	79.2
52.5°	1072.0	811.4	179.9	102.8	93.4	87.4	81.0	77.1	74.5	73.9	73.5
55°	1240.7	952.6	191.0	101.1	89.1	82.7	76.1	72.0	69.6	68.4	68.2
57.5°	1436.0	1122.2	233.1	98.9	85.2	77.6	71.3	67.1	64.5	63.2	62.8
60°	1611.4	1296.5	306.6	97.6	81.8	72.2	65.6	61.9	59.4	58.1	57.9
62.5°	1804.1	1462.7	394.4	101.1	80.3	66.9	60.4	57.0	54.9	53.6	53.6
65°	2010.0	1629.1	452.5	113.2	82.5	62.8	54.7	51.9	50.0	49.1	48.9
67.5°	2148.8	1686.6	372.8	125.6	88.2	58.3	49.3	47.0	45.9	44.9	44.9
69°	2133.7	1613.9	275.1	128.8	89.9	56.0	46.3	44.6	43.1	42.7	42.3
70°	2086.2	1531.0	230.5	126.7	88.6	54.0	44.4	42.3	41.0	40.6	40.4
72.5°	1858.1	1327.7	171.7	110.2	75.4	46.8	39.3	37.4	36.3	35.7	35.7
75°	1543.7	1085.2	134.1	87.6	59.0	39.5	33.7	32.1	31.2	30.8	30.6
77.5°	865.2	606.0	96.3	68.6	44.7	32.0	28.2	26.9	25.9	25.6	25.6
80°	241.0	173.2	56.6	45.3	30.5	24.3	22.4	21.4	20.1	19.2	19.7
82.5°	90.8	75.0	32.3	27.3	19.4	16.2	15.6	14.9	14.3	13.0	13.0
85°	44.2	36.5	20.7	14.5	10.7	8.5	8.1	7.7	7.3	6.4	6.6
87.5°	15.2	16.2	9.0	5.3	3.2	2.1	1.7	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

(END OF REPORT)