

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: P450197

Luminaire Tested: **GALN-SA1A-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450197
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-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 3863 lumens
Efficiency: N/A
Efficacy: 117.1 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

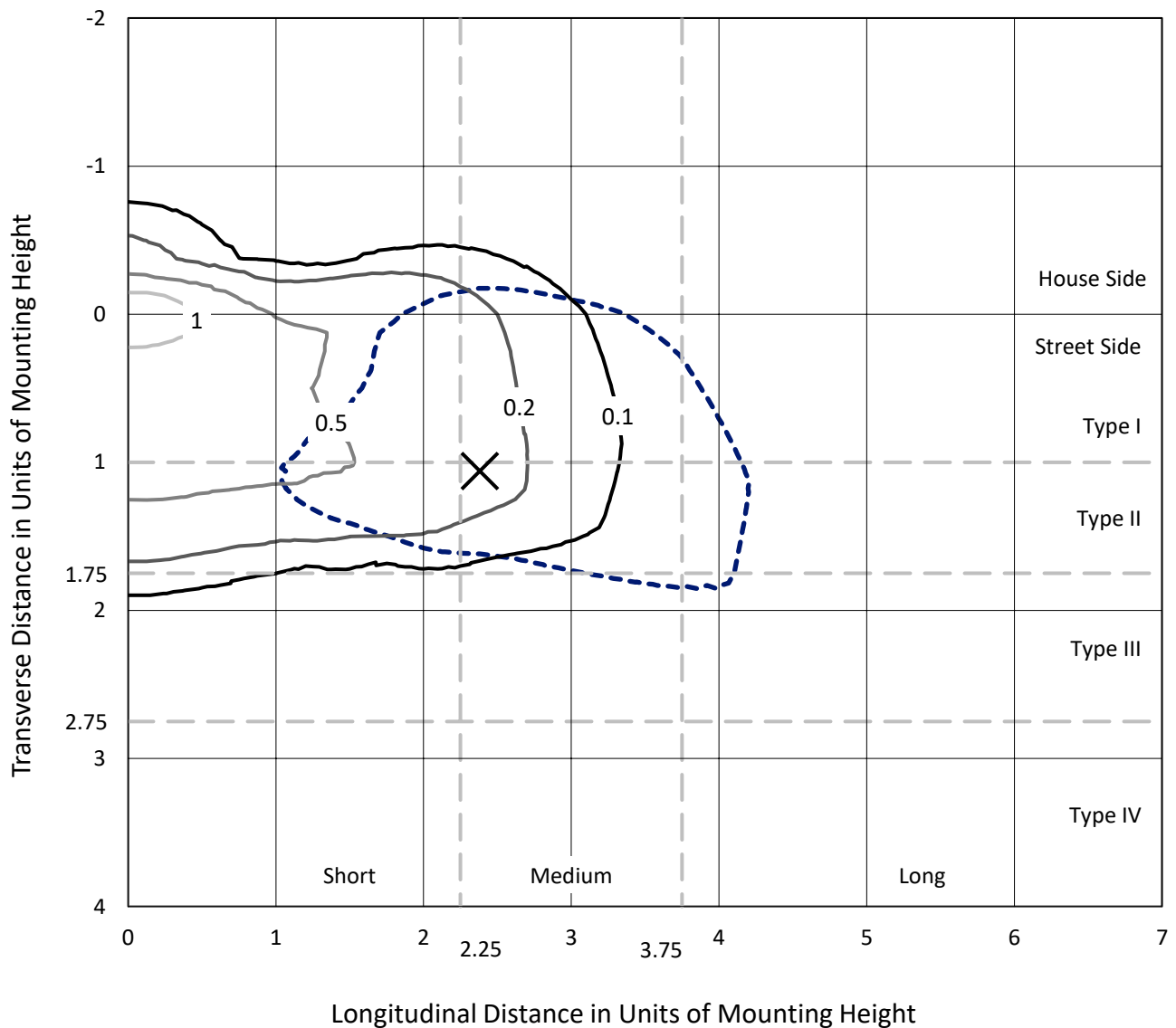
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450197
 CATALOG NUMBER: GALN-SA1A-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

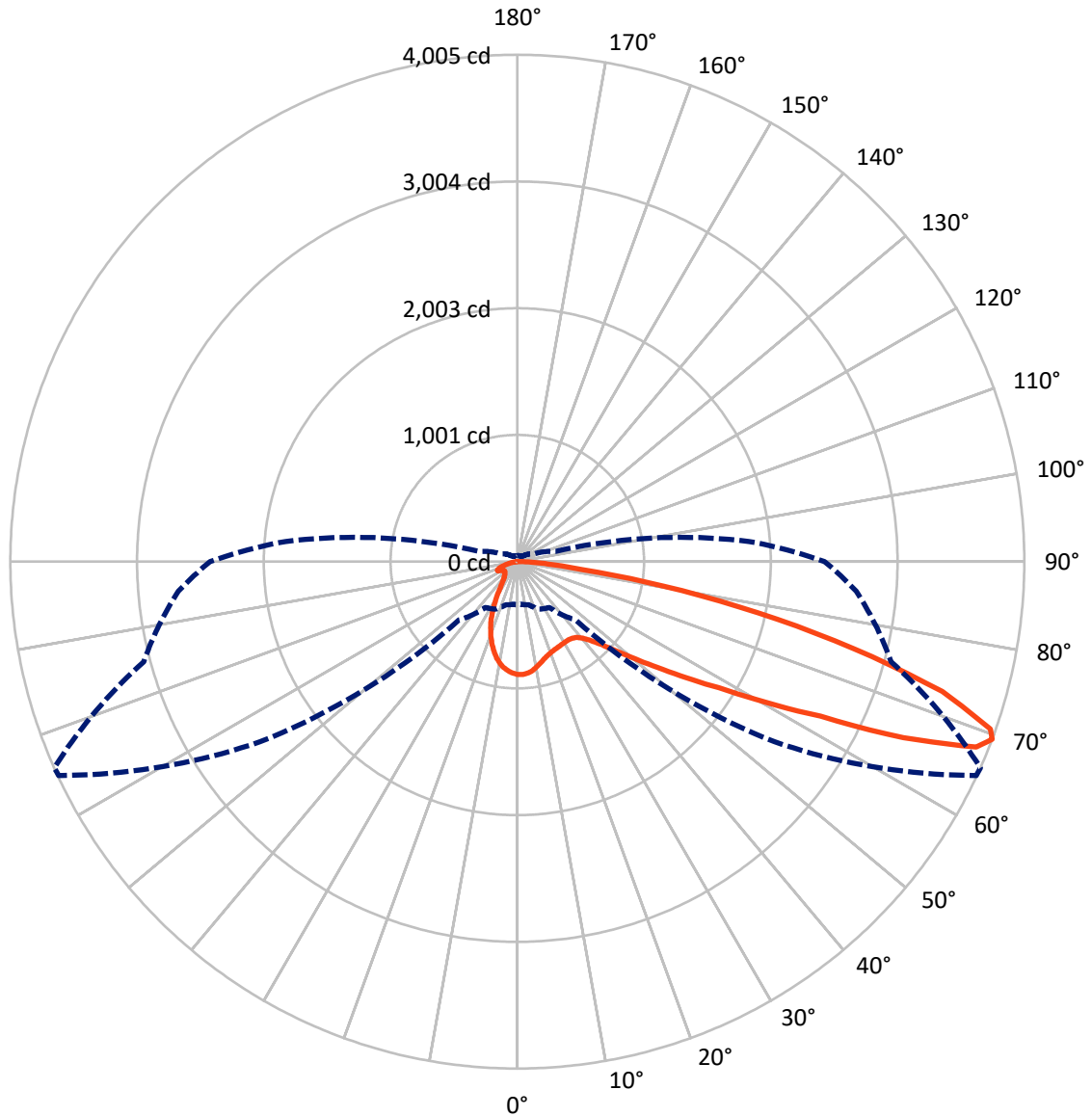
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P450197
CATALOG NUMBER: GALN-SA1A-727-U-SL2

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA1A-727-U-SL2

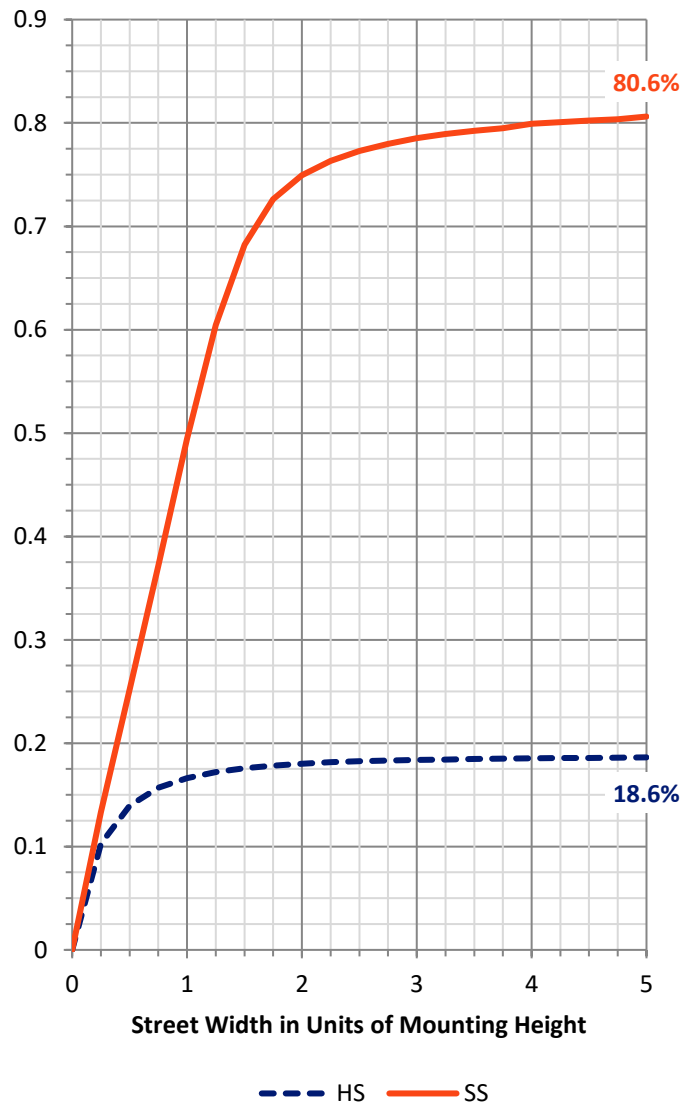
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	726.5	0.0	726.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3136.5	0.0	3136.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	3863.0	0.0	3863.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	2.0
10°-20°	183.7	4.8
20°-30°	250.1	6.5
30°-40°	336.1	8.7
40°-50°	501.9	13.0
50°-60°	798.4	20.7
60°-70°	982.0	25.4
70°-80°	638.9	16.5
80°-90°	94.4	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°	3863.0	100.0
0°-180°	3863.0	100.0



REPORT NUMBER: P450197

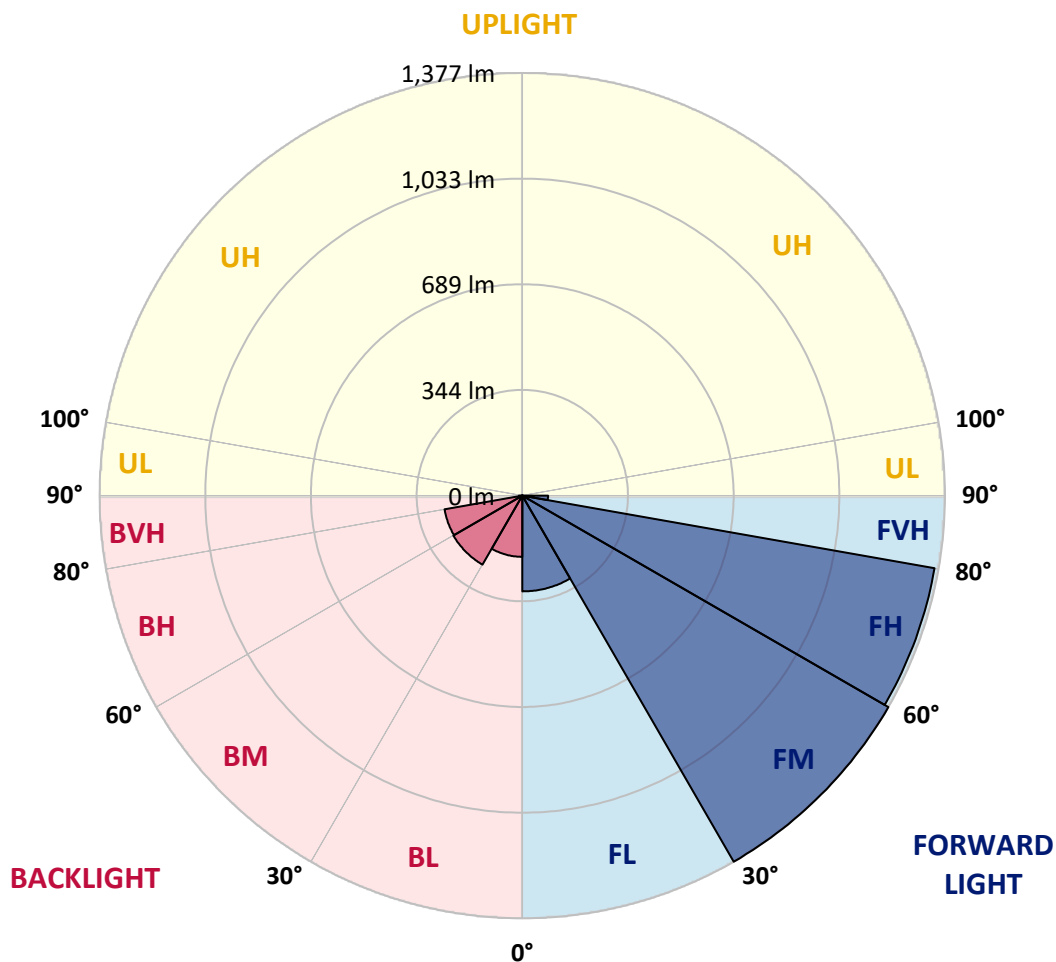
CATALOG NUMBER: GALN-SA1A-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	311.9	8.1			
FM	(30°-60°)	1377.0	35.6			
FH	(60°-80°)	1363.7	35.3			G1/1800
FVH	(80°-90°)	83.9	2.2			G1/100
BL	(0°-30°)	199.4	5.2	B1/500		
BM	(30°-60°)	259.4	6.7	B1/1000		
BH	(60°-80°)	257.2	6.7	B1/500		G1/500
BVH	(80°-90°)	10.5	0.3			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 III Medium





REPORT NUMBER: P450197
 CATALOG NUMBER: GALN-SA1A-727-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1
2.5°	860.8	864.3	868.1	872.4	880.5	885.0	888.2	891.9	892.3	894.2	892.7
5°	797.3	801.4	807.1	815.3	827.5	846.5	866.2	882.2	884.2	893.1	895.7
7.5°	744.3	746.6	751.3	764.4	781.7	802.9	831.5	864.0	868.8	890.1	897.6
10°	701.0	703.4	709.0	722.4	739.5	766.1	797.5	840.3	844.2	880.9	898.1
12.5°	668.7	670.9	676.9	690.1	709.8	734.6	769.3	814.6	820.2	868.8	894.0
15°	644.1	648.2	653.1	664.0	684.8	708.7	742.3	791.1	795.6	855.9	891.2
17.5°	633.7	635.6	639.0	649.1	664.2	687.8	721.6	772.7	778.1	846.9	890.6
20°	634.1	636.0	636.6	642.2	653.1	673.4	706.8	758.2	764.6	839.0	891.6
22.5°	648.6	648.8	646.5	644.6	648.8	665.7	696.3	747.2	754.7	835.6	892.5
25°	671.1	674.9	671.5	662.5	654.6	662.7	692.3	741.3	748.3	830.7	891.4
27.5°	707.5	708.1	705.3	693.1	672.6	666.6	690.6	736.8	742.8	827.0	886.1
30°	756.2	754.3	751.7	738.3	706.0	681.4	694.2	732.7	738.9	821.7	879.7
32.5°	805.6	811.6	809.3	793.5	751.5	710.0	706.0	732.3	737.4	817.6	872.6
35°	858.1	860.8	872.0	863.8	820.8	756.4	728.0	738.9	743.0	817.8	867.7
37.5°	899.1	906.6	932.7	939.8	899.3	817.8	763.7	757.7	759.4	828.3	869.6
40°	948.8	961.6	995.2	1024.1	997.5	897.6	824.5	792.6	794.7	853.6	882.2
42.5°	1011.7	1020.6	1065.8	1104.9	1100.7	1003.1	898.1	849.7	850.8	903.8	917.5
45°	1085.2	1098.1	1148.8	1207.6	1217.7	1122.5	1004.4	936.1	935.5	981.9	983.4
47.5°	1179.4	1187.3	1237.6	1301.7	1342.4	1272.4	1133.4	1060.2	1053.4	1095.7	1083.5
50°	1266.0	1278.4	1316.5	1386.7	1487.9	1448.1	1303.0	1221.1	1205.0	1244.6	1224.1
52.5°	1302.4	1315.4	1347.5	1434.6	1612.6	1675.3	1518.5	1413.0	1386.2	1416.6	1409.1
55°	1239.3	1256.2	1286.1	1392.0	1667.3	1937.3	1809.0	1634.8	1615.4	1602.3	1604.4
57.5°	1069.6	1085.7	1126.1	1242.9	1601.9	2127.5	2223.8	1920.0	1878.3	1818.2	1828.4
60°	814.2	824.3	845.2	974.6	1407.9	2176.9	2694.8	2280.5	2253.9	2033.2	2040.4
62.5°	578.2	589.6	604.1	668.7	1030.7	2037.7	3063.6	2783.8	2689.1	2255.9	2248.8
65°	469.6	461.9	479.4	509.6	604.8	1579.2	3146.6	3482.5	3352.0	2549.1	2451.2
67.5°	386.1	378.0	395.3	449.0	459.9	916.7	2847.6	3936.0	3909.9	2868.1	2656.8
69°	341.9	337.6	352.8	413.9	441.5	651.0	2480.7	3999.1	4005.3	3056.2	2688.4
70°	308.1	309.8	324.5	396.2	433.2	536.7	2120.2	3912.1	3964.7	3150.1	2654.2
72.5°	226.8	230.4	250.9	328.2	425.3	455.4	1261.7	3417.1	3510.1	3155.6	2428.1
75°	158.5	156.8	175.0	247.1	401.8	451.4	741.0	2642.6	2748.1	2727.6	2040.2
77.5°	103.8	106.5	121.1	174.6	338.0	448.0	483.0	1874.9	1943.3	1824.2	1206.8
80°	73.2	72.9	81.1	119.2	250.7	430.4	395.6	1181.7	1164.4	716.9	357.9
82.5°	41.9	44.9	54.3	83.9	167.7	378.9	363.9	565.2	516.0	204.3	120.9
85°	23.3	24.4	32.3	50.7	98.0	285.4	317.7	257.1	242.6	85.4	52.0
87.5°	7.5	8.1	13.5	25.7	44.5	134.8	179.9	118.7	109.5	30.8	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P450197
 CATALOG NUMBER: GALN-SA1A-727-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1
2.5°	893.4	895.9	889.1	882.4	876.5	868.1	860.6	854.4	850.1	849.5	847.4
5°	896.4	896.6	883.5	866.0	848.9	830.0	810.6	796.7	783.6	776.3	772.7
7.5°	898.5	896.6	873.0	844.6	811.6	777.4	743.2	715.8	694.6	686.3	689.5
10°	897.6	891.6	857.2	811.6	763.7	712.6	663.4	624.9	589.6	571.4	571.8
12.5°	892.9	883.1	833.7	774.6	704.2	635.8	560.5	508.5	467.6	443.5	436.0
15°	888.9	871.8	806.1	724.4	636.9	539.1	447.3	383.1	348.9	329.9	329.7
17.5°	884.6	860.8	775.9	671.1	559.4	433.6	337.4	288.4	272.3	274.3	271.0
20°	880.1	848.0	744.5	611.8	465.1	323.5	252.6	232.8	237.2	246.0	247.3
22.5°	875.0	834.3	710.7	546.6	365.8	243.4	204.9	201.9	213.5	227.2	229.1
25°	867.0	817.2	668.1	478.3	282.2	196.2	179.5	181.6	193.0	204.5	205.8
27.5°	855.9	796.0	625.1	393.2	212.0	168.4	164.1	166.9	172.4	179.5	181.2
30°	840.9	772.1	575.7	319.6	169.9	154.5	152.7	154.2	157.4	160.4	161.3
32.5°	826.0	749.0	525.8	244.7	151.5	145.3	143.5	143.5	143.5	144.0	144.2
35°	812.1	727.1	472.3	190.6	141.8	138.0	135.6	133.1	132.6	131.1	131.1
37.5°	804.4	707.2	415.4	159.6	134.8	132.0	128.8	124.5	122.2	122.4	121.9
40°	805.9	694.2	363.7	142.0	129.0	126.0	121.1	116.2	114.7	114.7	114.2
42.5°	822.8	689.9	314.0	132.8	123.4	120.0	113.8	109.3	108.5	108.2	108.7
45°	861.7	700.4	269.5	126.9	118.7	113.6	107.4	103.3	102.5	102.5	102.3
47.5°	937.6	734.4	237.7	123.0	115.3	108.7	102.3	98.2	96.7	96.3	96.3
50°	1055.7	808.2	213.9	119.6	111.0	104.2	97.6	92.8	90.5	90.3	90.1
52.5°	1219.8	923.3	204.7	117.0	106.3	99.5	92.2	87.7	84.7	84.1	83.6
55°	1411.7	1084.0	217.3	115.1	101.4	94.1	86.6	81.9	79.2	77.9	77.7
57.5°	1634.0	1276.9	265.3	112.5	96.9	88.4	81.1	76.4	73.4	71.9	71.5
60°	1833.6	1475.2	348.9	111.0	93.1	82.1	74.7	70.4	67.6	66.1	65.9
62.5°	2052.8	1664.3	448.8	115.1	91.3	76.2	68.7	64.8	62.5	61.0	61.0
65°	2287.1	1853.7	514.9	128.8	93.9	71.5	62.3	59.0	56.9	55.8	55.6
67.5°	2445.0	1919.1	424.2	142.9	100.3	66.3	56.0	53.5	52.2	51.1	51.1
69°	2427.9	1836.3	313.0	146.5	102.3	63.8	52.6	50.7	49.0	48.6	48.1
70°	2373.7	1742.0	262.3	144.2	100.8	61.4	50.5	48.1	46.6	46.2	46.0
72.5°	2114.2	1510.7	195.3	125.4	85.8	53.3	44.7	42.6	41.3	40.6	40.6
75°	1756.6	1234.8	152.5	99.7	67.2	44.9	38.3	36.6	35.5	35.1	34.9
77.5°	984.5	689.5	109.5	78.1	50.9	36.4	32.1	30.6	29.5	29.1	29.1
80°	274.3	197.0	64.4	51.6	34.7	27.6	25.5	24.4	22.9	21.8	22.5
82.5°	103.3	85.4	36.8	31.0	22.0	18.4	17.8	16.9	16.3	14.8	14.8
85°	50.3	41.5	23.5	16.5	12.2	9.6	9.2	8.8	8.3	7.3	7.5
87.5°	17.3	18.4	10.3	6.0	3.6	2.4	1.9	1.1	1.1	1.1	1.1
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)