

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: P652188

Luminaire Tested: **GALN-SA1B-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3877 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

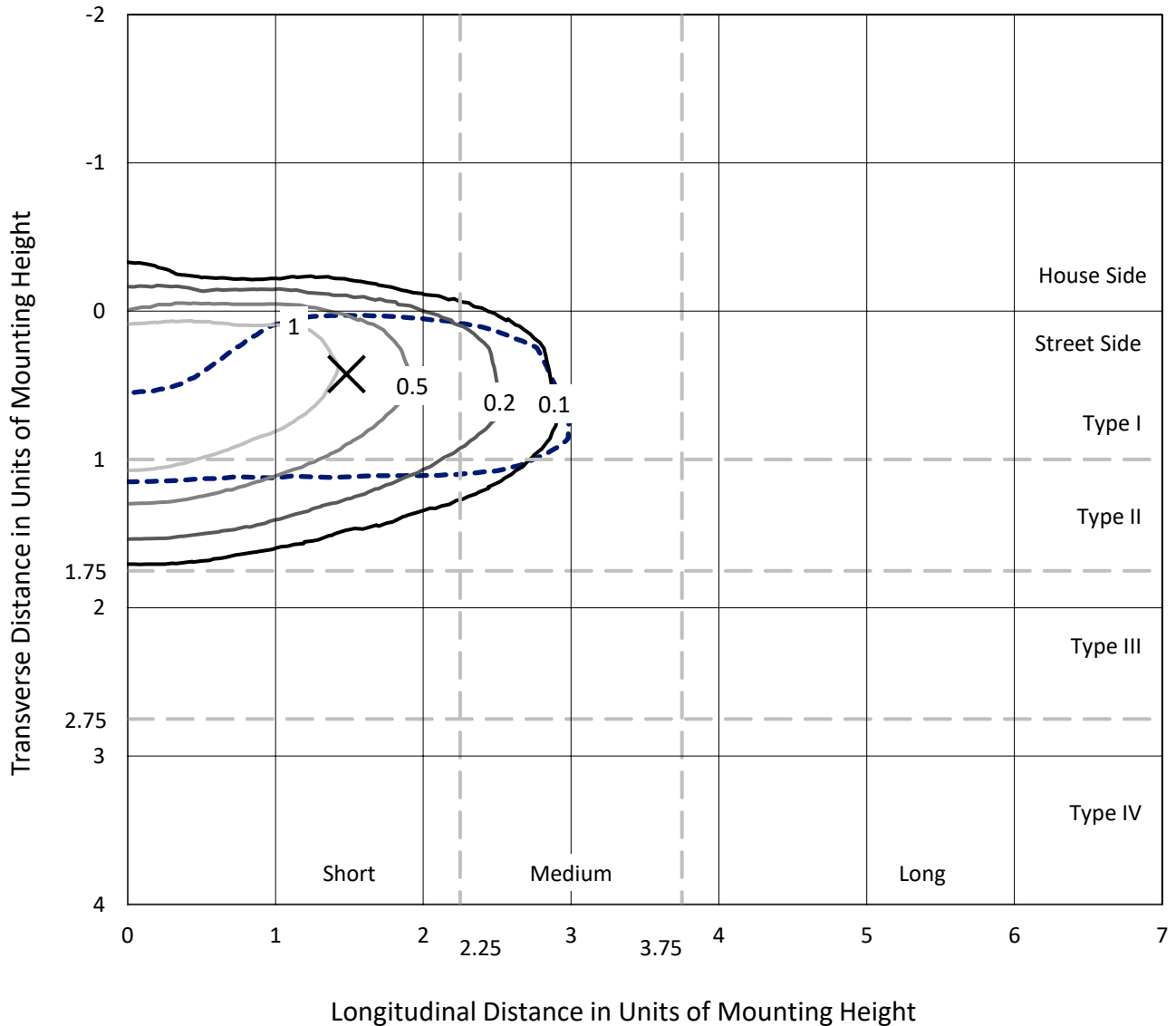
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652188
 CATALOG NUMBER: GALN-SA1B-840-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

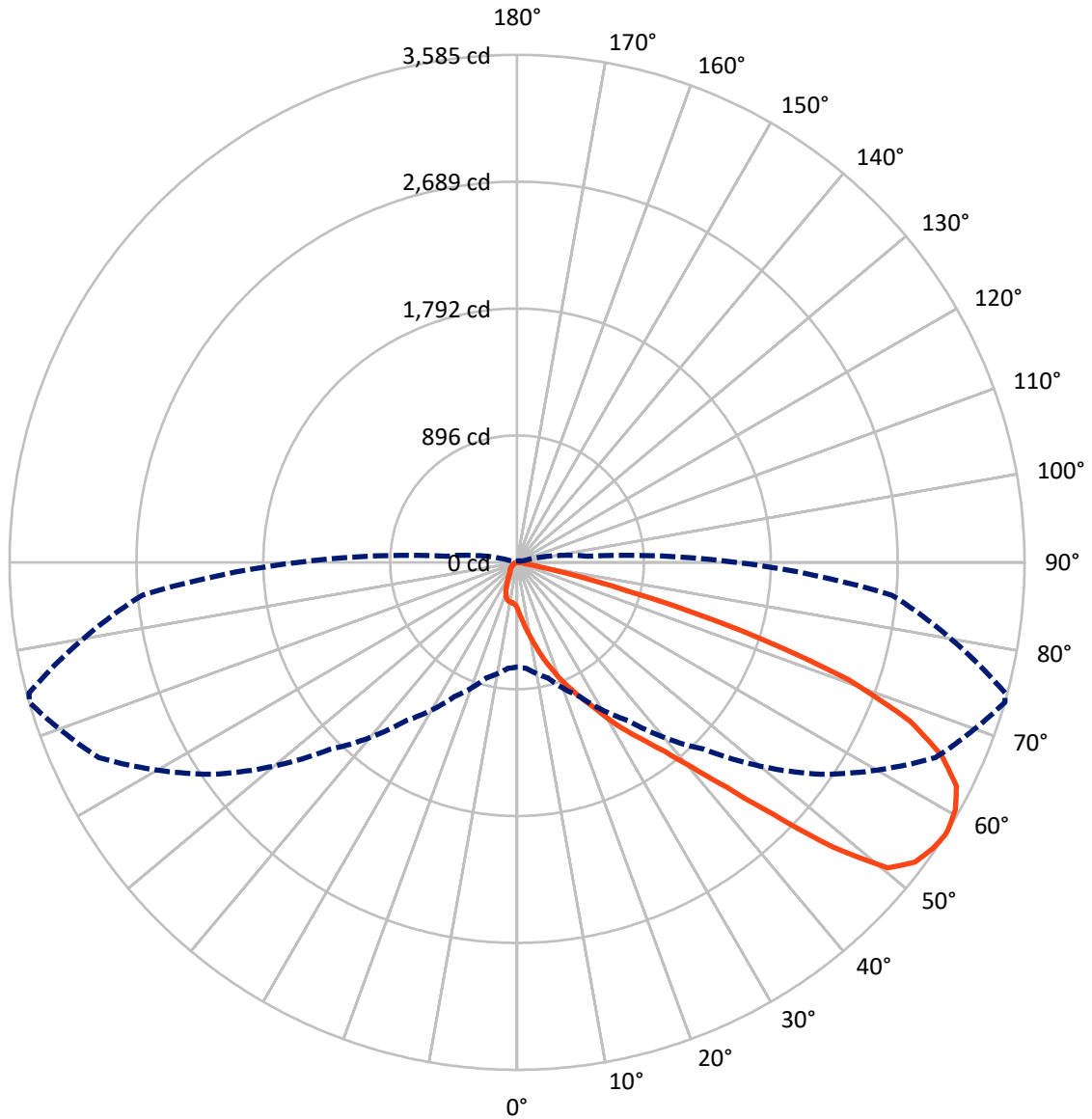
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

REPORT NUMBER: P652188
CATALOG NUMBER: GALN-SA1B-840-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P652188
 CATALOG NUMBER: GALN-SA1B-840-U-T2R-HSS

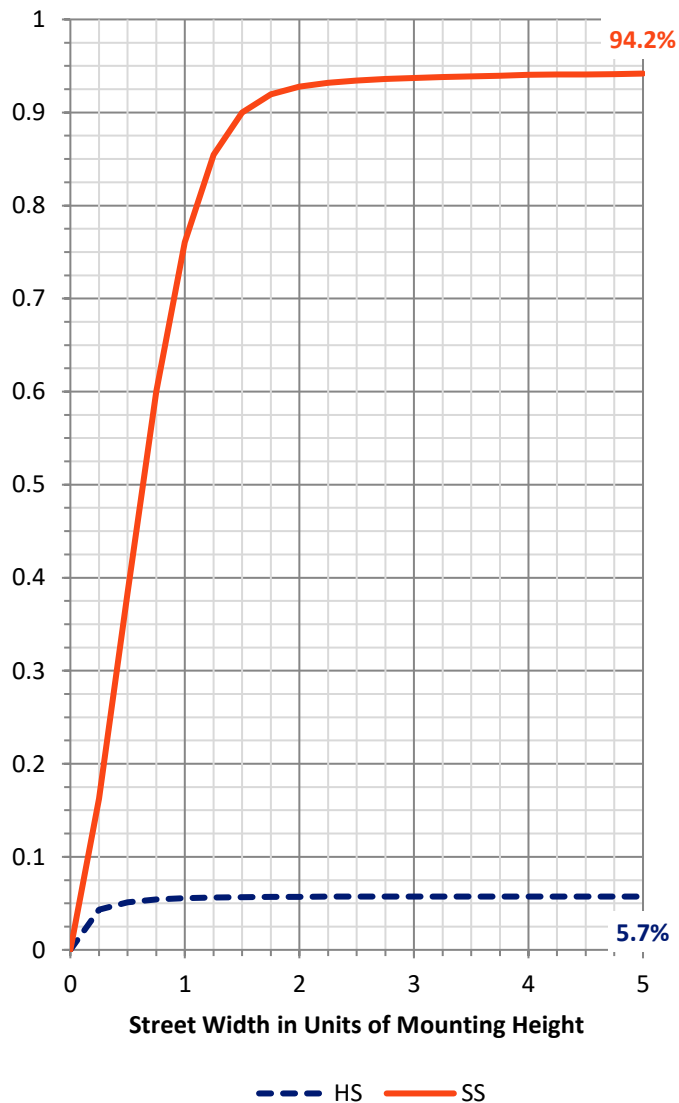
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	223.6	0.0	223.6
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	3653.4	0.0	3653.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	3877.0	0.0	3877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	1.0
10°-20°	154.5	4.0
20°-30°	330.5	8.5
30°-40°	607.5	15.7
40°-50°	931.4	24.0
50°-60°	985.3	25.4
60°-70°	643.4	16.6
70°-80°	175.8	4.5
80°-90°	9.5	0.2
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°	3877.0	100.0
0°-180°	3877.0	100.0

Coefficient of Utilization



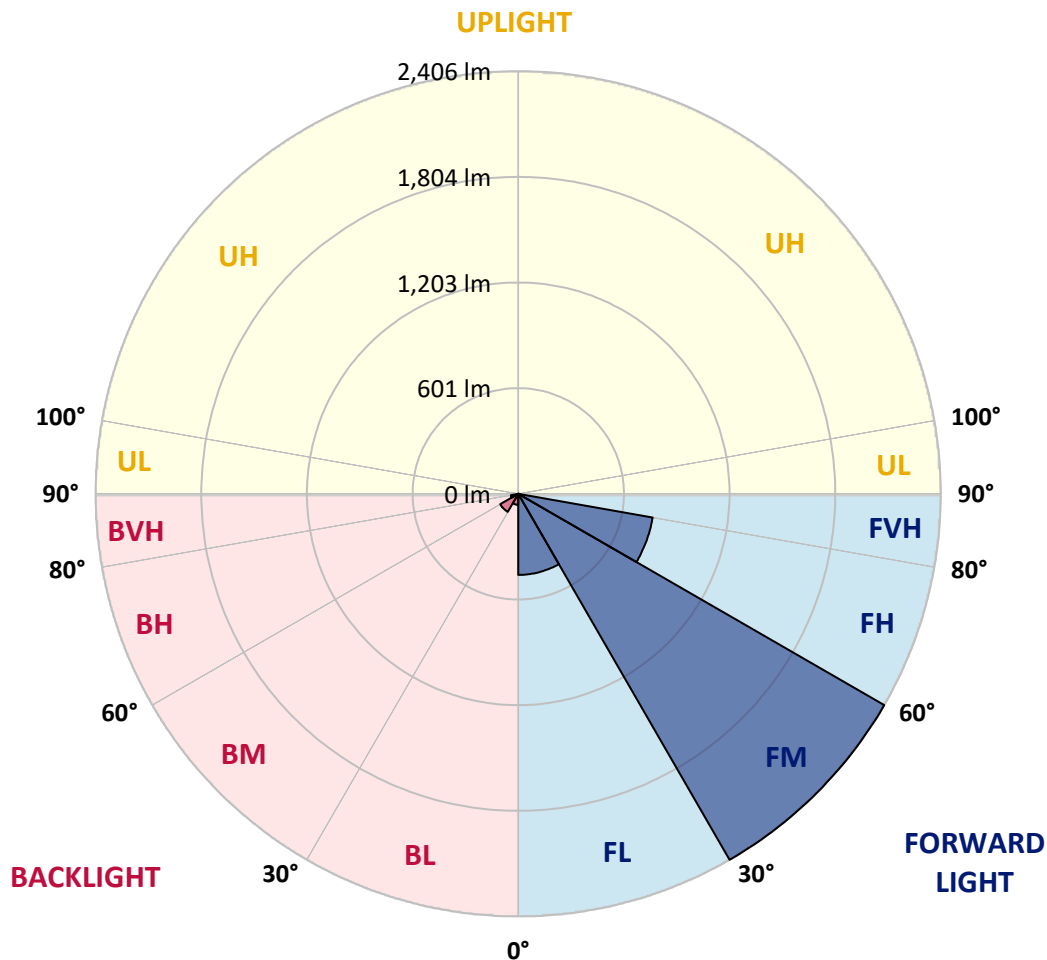
REPORT NUMBER: P652188
 CATALOG NUMBER: GALN-SA1B-840-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	461.7	11.9			
FM (30°-60°)	2405.8	62.1			
FH (60°-80°)	777.2	20.0			G1/1800
FVH (80°-90°)	8.7	0.2			G0/10
BL (0°-30°)	62.5	1.6	B0/110		
BM (30°-60°)	118.4	3.1	B0/220		
BH (60°-80°)	42.0	1.1	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





REPORT NUMBER: P652188

CATALOG NUMBER: GALN-SA1B-840-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7
2.5°	475.2	470.9	462.3	459.4	446.7	427.2	410.1	387.0	368.9	367.0	345.1
5°	636.3	626.6	622.6	603.3	573.1	544.7	496.0	459.1	416.5	413.3	369.1
7.5°	791.5	778.2	774.1	755.9	720.6	675.9	612.8	545.6	478.1	471.9	401.5
10°	904.0	905.8	898.6	886.6	857.9	812.4	734.5	642.7	546.6	538.8	437.9
12.5°	984.6	984.2	985.6	985.3	970.1	935.5	853.6	747.9	622.1	606.9	479.7
15°	1037.0	1037.8	1041.8	1055.7	1057.3	1035.9	967.7	848.6	709.6	690.6	525.0
17.5°	1090.0	1095.6	1102.0	1115.2	1126.9	1118.4	1070.2	953.4	788.9	774.6	573.4
20°	1177.5	1185.3	1181.5	1189.6	1195.7	1196.5	1159.3	1050.4	885.0	861.1	628.8
22.5°	1317.5	1317.3	1307.6	1293.1	1281.1	1280.6	1246.9	1150.0	972.2	949.2	684.5
25°	1494.5	1495.2	1476.5	1435.3	1405.3	1368.6	1329.8	1237.2	1065.6	1037.3	743.1
27.5°	1697.4	1692.3	1663.9	1607.2	1547.7	1485.1	1429.1	1338.7	1164.7	1141.2	810.3
30°	1879.6	1877.8	1844.6	1775.3	1697.1	1634.1	1553.1	1465.8	1292.9	1263.9	885.5
32.5°	2049.3	2052.0	2006.0	1934.2	1858.8	1786.2	1700.6	1587.3	1418.7	1377.7	967.4
35°	2181.9	2184.5	2136.9	2077.2	1999.6	1939.3	1857.7	1716.9	1542.9	1508.3	1061.6
37.5°	2252.5	2256.0	2228.4	2183.5	2135.0	2104.8	2028.7	1883.7	1693.9	1673.0	1172.9
40°	2265.9	2269.9	2257.8	2245.8	2243.1	2264.8	2242.6	2080.1	1903.2	1870.6	1339.0
42.5°	2225.8	2231.1	2236.5	2263.2	2317.8	2397.4	2474.7	2346.7	2172.7	2128.8	1541.8
45°	2120.2	2119.7	2140.9	2210.2	2332.5	2502.2	2717.2	2680.5	2540.0	2487.8	1828.5
47.5°	1939.9	1937.2	1983.0	2081.7	2272.3	2521.6	2915.0	3085.8	3008.7	2960.5	2136.6
50°	1664.9	1678.0	1750.1	1888.0	2122.7	2463.2	2976.0	3351.6	3393.4	3342.2	2385.6
52.5°	1342.9	1342.4	1455.4	1642.5	1901.1	2334.7	2933.5	3399.8	3518.4	3479.3	2508.1
55°	993.9	1000.9	1118.4	1307.1	1613.3	2100.2	2794.6	3350.3	3566.0	3538.4	2589.0
57°	739.3	751.6	845.9	1045.5	1362.8	1868.1	2609.6	3261.7	3584.8	3569.8	2656.2
57.5°	690.0	690.6	782.5	963.9	1289.4	1779.0	2556.6	3224.7	3584.3	3575.9	2667.1
60°	424.8	438.2	501.7	651.5	943.9	1388.5	2201.4	3012.5	3556.4	3568.4	2714.0
62.5°	254.3	260.0	301.2	392.7	608.5	1013.4	1801.5	2740.7	3483.8	3520.5	2710.8
65°	163.6	164.9	183.6	237.7	380.4	685.0	1388.2	2381.8	3296.2	3363.7	2604.7
67.5°	126.3	128.5	136.0	156.1	220.6	426.6	981.9	1998.7	2992.6	3079.7	2347.8
70°	112.2	113.2	115.9	122.4	145.9	240.9	610.8	1561.4	2481.6	2506.3	1837.3
72.5°	91.6	94.5	102.8	105.0	115.6	150.5	339.9	1048.0	1667.4	1673.5	1027.9
75°	70.9	71.5	83.8	89.9	97.5	103.6	151.8	528.4	800.9	758.1	396.2
77.5°	53.0	55.4	61.1	68.8	79.5	74.2	68.0	199.1	248.7	244.1	115.1
80°	34.0	35.3	42.6	51.6	61.8	48.4	38.3	58.4	54.6	56.2	27.6
82.5°	17.2	17.4	27.3	42.0	39.4	24.4	24.1	23.8	20.4	20.1	12.9
85°	1.9	4.0	17.7	24.1	17.7	8.0	11.3	10.9	10.7	10.9	7.5
87.5°	0.3	0.3	2.9	3.4	2.4	2.7	3.2	3.4	4.3	4.0	3.2
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: P652188

CATALOG NUMBER: GALN-SA1B-840-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7
2.5°	334.3	323.6	303.9	284.8	270.6	261.6	249.8	245.5	239.3	238.5	235.6
5°	348.8	328.4	293.9	266.6	244.6	228.1	213.6	201.6	191.9	189.8	190.8
7.5°	369.4	339.2	291.0	253.7	223.3	194.9	171.8	157.7	147.5	143.7	144.3
10°	392.7	353.3	290.4	240.1	193.5	158.7	133.6	121.0	115.1	112.9	110.6
12.5°	420.2	369.7	289.1	219.0	160.9	126.6	108.7	101.2	95.5	93.9	93.9
15°	451.3	387.0	282.7	192.8	130.6	104.7	92.6	86.7	84.9	83.3	83.3
17.5°	483.7	404.2	269.3	160.4	108.4	89.7	82.2	78.7	76.0	74.2	74.2
20°	520.7	421.1	247.8	131.7	91.6	80.1	74.2	70.1	68.0	66.4	65.9
22.5°	555.7	434.7	220.6	108.2	79.7	72.0	66.7	62.4	60.2	59.5	59.5
25°	592.1	443.0	187.6	89.4	72.8	65.3	59.5	55.9	54.1	53.6	53.2
27.5°	627.5	447.8	158.7	78.1	66.4	59.1	53.6	50.9	48.9	48.4	48.7
30°	670.3	448.6	130.6	70.1	60.8	53.2	48.2	45.8	44.7	44.2	43.9
32.5°	713.7	447.6	109.8	65.3	55.4	48.2	43.9	42.0	41.2	40.5	40.5
35°	762.4	441.9	93.4	60.5	50.3	43.9	40.1	38.5	37.5	36.7	36.4
37.5°	822.8	439.0	84.0	55.2	45.8	39.9	36.4	34.8	34.0	32.9	32.6
40°	918.1	452.1	81.1	50.3	41.2	36.2	32.9	31.0	29.9	28.9	28.7
42.5°	1037.0	475.2	76.3	45.5	37.2	32.6	29.4	27.3	25.4	24.1	23.5
45°	1190.9	505.4	68.8	40.5	33.7	28.9	26.0	23.3	20.9	19.8	19.5
47.5°	1352.3	534.5	62.1	36.4	29.9	25.7	22.5	19.5	17.4	16.6	16.3
50°	1451.3	540.4	57.8	31.9	26.2	22.2	19.0	16.3	15.0	14.2	14.2
52.5°	1496.6	531.1	51.9	27.8	22.8	19.5	16.3	14.2	13.4	12.9	12.6
55°	1528.2	516.6	44.2	24.1	19.5	16.6	14.5	12.9	11.8	11.3	10.9
57°	1546.7	497.1	38.3	21.1	16.9	14.5	12.9	11.5	10.4	9.3	9.3
57.5°	1547.4	489.5	36.7	20.9	16.1	14.0	12.6	11.3	9.9	8.8	8.6
60°	1523.6	438.2	29.4	17.7	12.9	11.8	10.4	8.8	7.0	5.9	5.6
62.5°	1447.1	372.9	24.4	15.0	10.4	9.1	7.5	6.7	4.8	3.4	3.4
65°	1331.1	302.5	20.9	12.0	8.6	6.7	5.0	4.8	2.9	1.6	1.3
67.5°	1163.6	235.6	17.7	9.9	7.2	4.8	3.4	3.2	1.6	0.5	0.0
70°	886.6	160.6	14.7	8.0	5.4	3.4	2.4	1.9	1.1	0.3	0.0
72.5°	511.0	88.3	12.3	6.1	4.0	2.7	1.9	1.1	1.1	0.0	0.0
75°	182.6	38.0	9.3	4.5	3.2	2.1	1.3	0.5	0.8	0.3	0.0
77.5°	58.1	20.4	6.1	3.4	2.7	1.6	1.1	0.5	0.5	0.3	0.0
80°	17.2	10.7	3.8	2.9	1.9	1.3	0.8	0.3	0.5	0.3	0.0
82.5°	9.3	5.4	2.9	2.1	1.9	1.1	0.8	0.3	0.3	0.3	0.0
85°	4.8	3.2	2.4	2.1	1.9	1.1	0.8	0.3	0.0	0.3	0.3
87.5°	2.7	2.4	2.4	2.1	1.9	1.3	0.8	0.3	0.0	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)