

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: P526448

Luminaire Tested: **GALN-SA1B-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3720 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

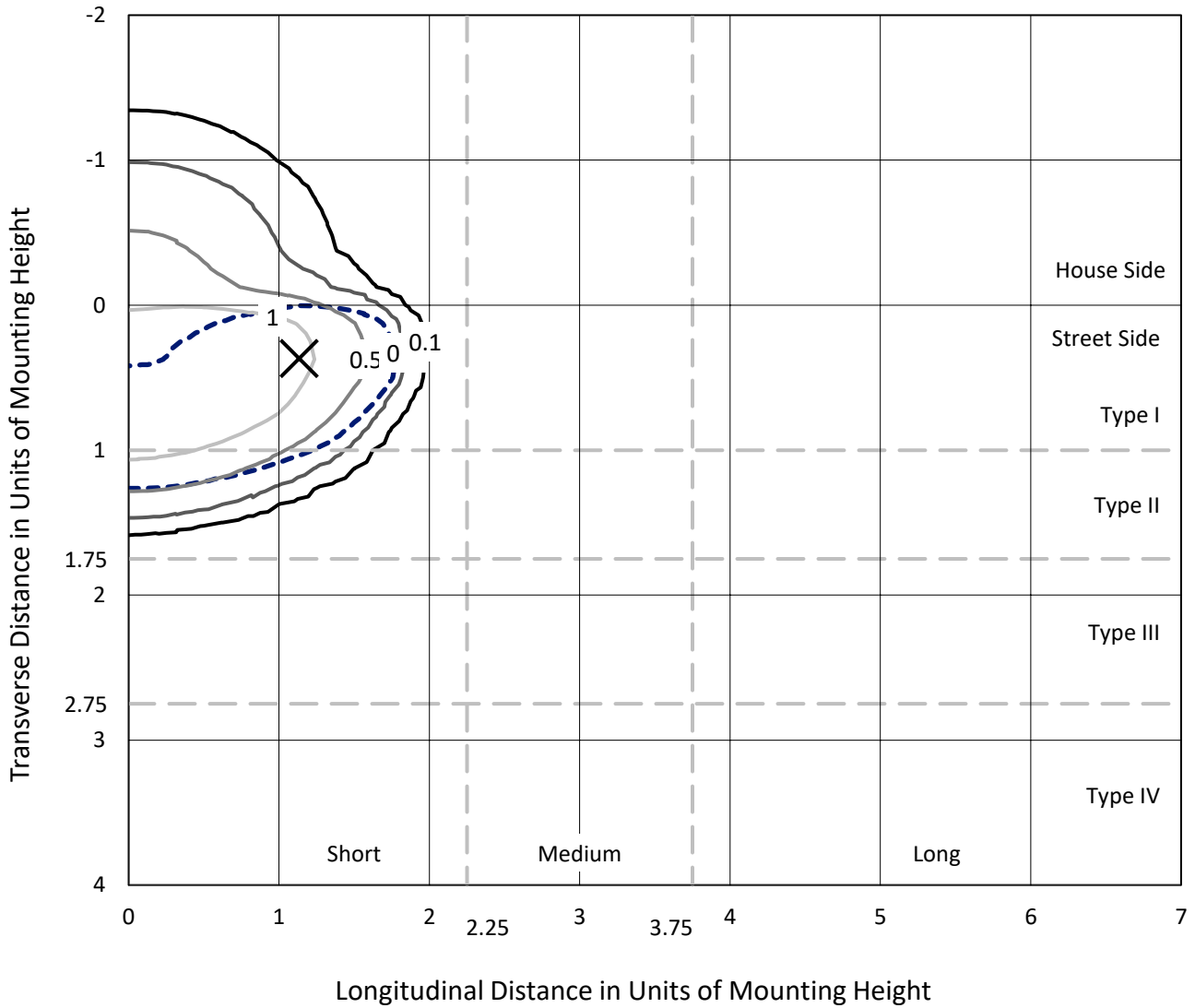
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA1B-827-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

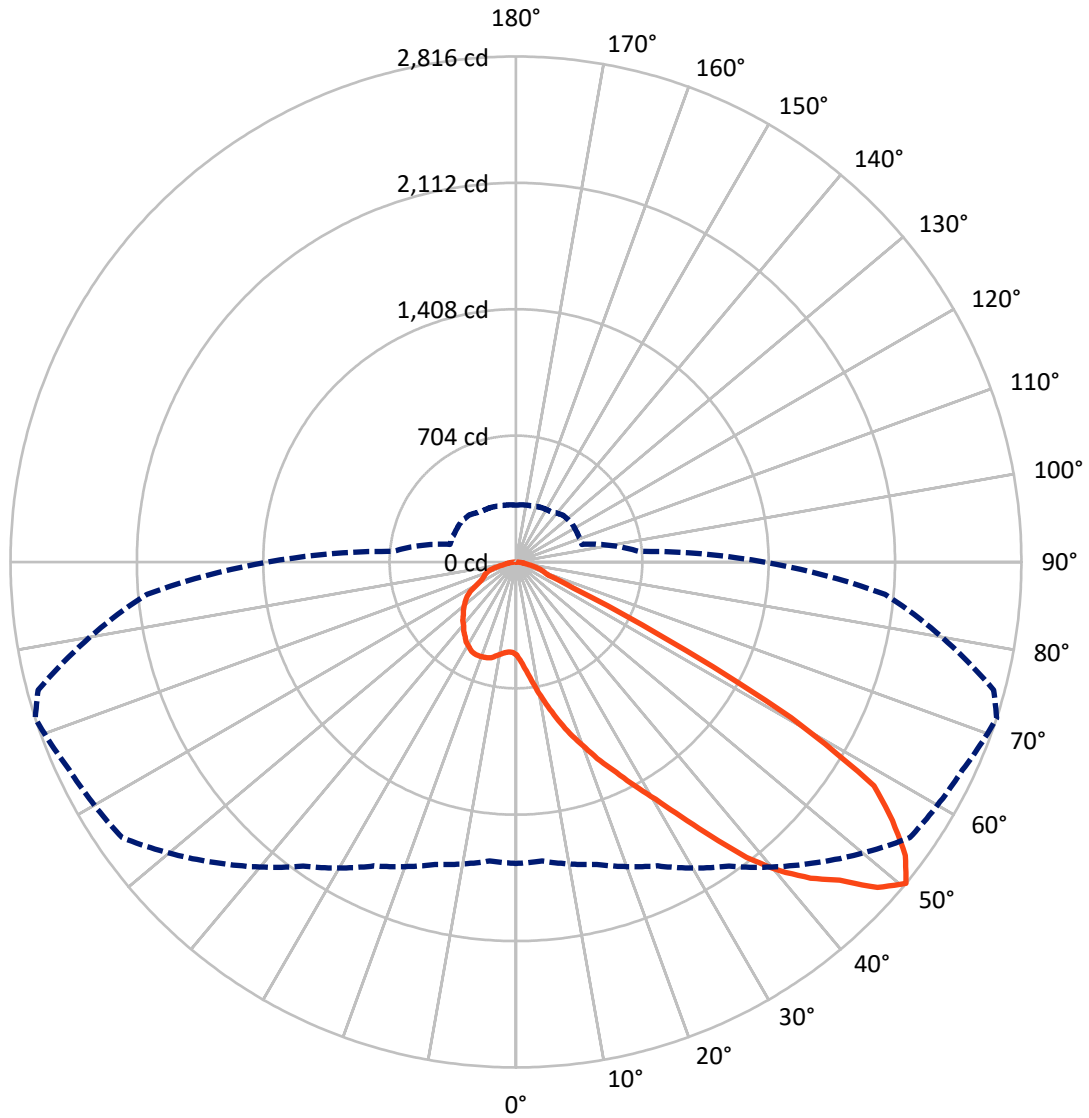
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

REPORT NUMBER: P526448
CATALOG NUMBER: GALN-SA1B-827-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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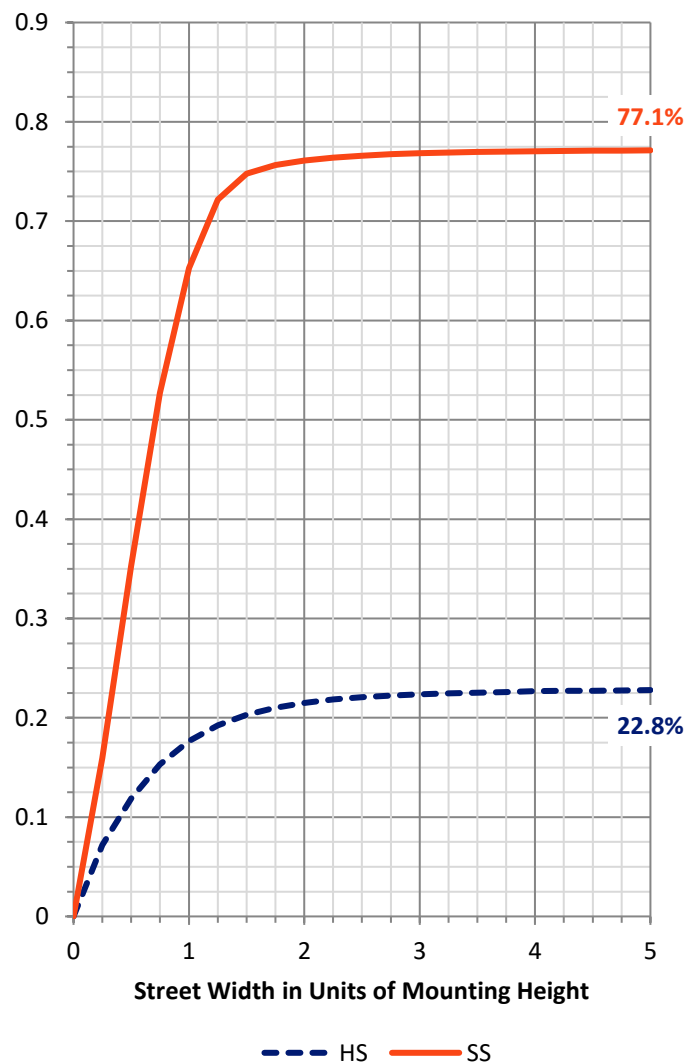
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	852.3	0.0	852.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2867.7	0.0	2867.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	3720.0	0.0	3720.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	1.6
10°-20°	227.7	6.1
20°-30°	441.5	11.9
30°-40°	731.4	19.7
40°-50°	1023.5	27.5
50°-60°	863.4	23.2
60°-70°	263.2	7.1
70°-80°	92.3	2.5
80°-90°	16.1	0.4
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°	3720.0	100.0
0°-180°	3720.0	100.0



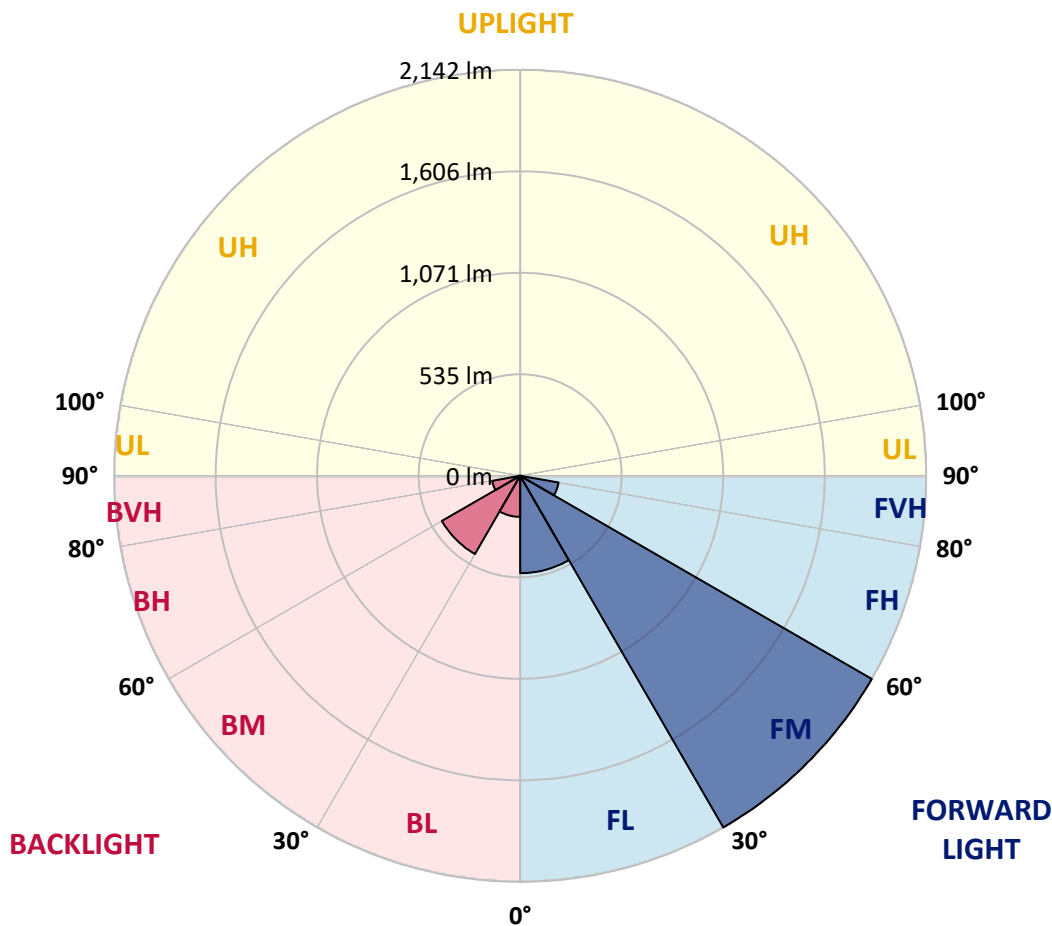
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CATALOG NUMBER: GALN-SA1B-827-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.5	13.8			
FM (30°-60°)	2141.7	57.6			
FH (60°-80°)	205.3	5.5			G0/660
FVH (80°-90°)	7.2	0.2			G0/10
BL (0°-30°)	216.7	5.8	B1/500		
BM (30°-60°)	476.6	12.8	B1/1000		
BH (60°-80°)	150.2	4.0	B1/500		G1/500
BVH (80°-90°)	8.9	0.2			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 II Short





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CATALOG NUMBER: GALN-SA1B-827-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9
2.5°	666.1	661.9	649.5	645.4	630.6	603.9	594.7	567.6	556.1	545.5	533.0
5°	842.4	823.0	821.7	798.2	764.1	744.3	685.4	645.8	609.5	591.0	557.0
7.5°	954.7	955.2	955.2	935.8	908.7	858.5	805.6	734.2	679.4	652.3	594.3
10°	1061.5	1052.3	1047.2	1045.4	1027.0	978.2	921.6	833.2	758.1	726.4	622.3
12.5°	1137.0	1129.2	1140.7	1134.7	1121.3	1089.6	1036.2	935.4	841.5	798.6	667.5
15°	1172.9	1178.4	1187.6	1204.2	1198.2	1186.2	1127.3	1040.3	931.2	882.9	707.5
17.5°	1228.1	1212.9	1224.0	1244.7	1261.3	1255.7	1222.1	1116.3	1020.1	960.7	761.4
20°	1266.8	1258.0	1263.6	1287.5	1299.9	1331.2	1313.7	1215.7	1105.2	1042.6	824.9
22.5°	1377.3	1364.4	1346.4	1350.1	1354.7	1376.8	1380.9	1324.8	1204.2	1137.9	885.2
25°	1513.5	1501.6	1480.4	1458.7	1445.4	1441.3	1455.5	1410.4	1299.0	1230.4	950.1
27.5°	1663.6	1643.3	1630.0	1585.3	1549.4	1543.9	1537.0	1512.6	1411.3	1337.2	1023.3
30°	1809.5	1793.4	1775.4	1704.1	1666.8	1660.8	1626.8	1633.7	1533.3	1450.9	1106.1
32.5°	1920.0	1921.4	1880.4	1826.5	1791.6	1759.8	1747.4	1767.2	1689.8	1623.5	1198.7
35°	2009.3	2013.4	1974.3	1925.5	1887.8	1909.9	1904.3	1913.5	1876.7	1795.7	1306.4
37.5°	2096.3	2075.6	2033.7	2010.2	1990.4	2026.8	2073.7	2081.5	2088.5	1993.2	1431.6
40°	2110.5	2112.4	2088.0	2104.6	2079.7	2134.5	2243.6	2233.5	2261.5	2178.2	1567.4
42.5°	2090.3	2094.4	2104.1	2127.6	2187.4	2253.2	2415.3	2373.9	2407.9	2333.8	1699.5
45°	2057.2	2040.1	2052.1	2141.4	2245.0	2391.3	2572.2	2540.0	2529.0	2466.8	1856.9
47.5°	1898.8	1916.3	1953.6	2063.6	2219.2	2415.3	2683.6	2676.3	2709.4	2665.7	2000.1
50°	1679.2	1672.3	1744.1	1868.0	2068.7	2368.3	2677.7	2744.4	2815.8	2755.0	2064.1
52.5°	1257.6	1294.4	1356.1	1509.8	1796.2	2112.4	2546.9	2658.3	2716.3	2703.4	2012.5
55°	795.0	806.0	843.3	1026.0	1283.8	1695.3	2183.3	2441.5	2545.1	2593.4	1965.1
57.5°	386.2	365.5	411.1	557.9	741.6	1140.2	1683.8	2126.7	2351.8	2439.2	1862.0
60°	201.6	209.4	227.4	279.9	383.4	592.0	1049.5	1417.3	1761.2	1895.6	1411.3
62.5°	167.1	169.9	181.8	208.1	255.0	340.6	535.8	690.9	898.1	1019.1	802.8
65°	141.8	143.2	156.0	173.5	203.5	239.8	275.7	288.6	349.4	358.6	285.4
67.5°	118.3	119.7	133.5	150.1	169.4	179.1	188.3	187.3	194.3	191.5	191.0
70°	91.1	92.5	106.8	124.3	134.0	128.4	157.0	163.4	166.2	168.5	172.2
72.5°	65.8	68.6	79.6	92.1	87.0	99.9	129.3	139.0	142.7	144.1	148.7
75°	47.9	48.8	51.6	47.9	55.2	69.5	91.1	103.1	107.7	109.1	116.0
77.5°	21.2	21.6	22.1	27.6	35.4	43.3	54.3	64.0	70.4	72.3	74.1
80°	11.0	11.5	14.3	18.9	25.3	31.8	39.6	45.1	49.3	49.7	51.6
82.5°	6.9	7.4	10.1	13.3	18.0	23.5	29.0	33.6	36.8	37.3	37.7
85°	3.2	4.1	6.0	8.3	12.0	15.2	15.7	13.3	14.3	14.7	13.8
87.5°	0.9	1.4	1.8	1.4	1.8	1.8	2.3	2.8	2.8	2.8	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: P526448

CATALOG NUMBER: GALN-SA1B-827-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9
2.5°	526.1	522.0	505.9	499.9	484.3	487.0	478.7	478.3	476.4	476.0	475.5
5°	539.0	526.1	506.8	492.1	483.3	482.4	476.4	476.4	478.3	479.6	476.4
7.5°	560.2	545.5	512.8	499.0	491.2	489.8	485.6	482.4	486.6	485.2	481.5
10°	584.6	558.8	524.3	512.3	499.4	496.2	496.2	497.6	490.7	493.0	489.3
12.5°	611.8	577.2	539.0	525.2	510.0	508.2	507.3	497.1	500.8	499.0	489.8
15°	646.3	598.4	557.9	534.4	521.5	513.3	501.3	499.4	497.1	492.5	488.4
17.5°	683.6	621.4	566.6	537.2	517.9	511.9	502.7	493.0	486.1	487.0	483.8
20°	715.3	642.6	569.9	540.0	515.1	503.6	489.3	483.3	476.0	475.5	475.0
22.5°	753.1	671.1	574.5	532.6	506.8	494.8	485.2	474.6	469.5	463.1	466.3
25°	798.2	682.2	575.4	528.4	500.8	479.6	474.6	463.1	461.2	452.0	453.9
27.5°	830.9	688.2	568.0	515.6	487.0	470.9	461.7	453.4	450.2	443.3	441.4
30°	874.6	697.4	552.4	499.4	473.2	455.3	449.7	447.9	438.7	431.3	430.4
32.5°	924.3	703.4	542.3	482.9	458.9	445.1	447.9	439.1	427.6	421.2	419.3
35°	963.9	705.7	516.9	464.0	449.3	440.5	437.3	435.5	418.9	412.9	408.3
37.5°	1024.2	700.6	495.8	450.6	438.7	435.5	432.7	420.3	401.4	392.6	386.2
40°	1094.6	699.2	468.6	431.8	428.6	432.2	424.0	404.6	378.4	368.7	364.1
42.5°	1162.3	708.9	451.6	421.6	417.5	418.9	407.4	378.4	365.5	360.0	352.6
45°	1275.5	729.1	423.5	406.0	404.2	403.2	389.4	359.0	351.7	344.8	343.4
47.5°	1377.7	715.8	405.5	389.9	391.7	386.7	357.2	347.5	339.3	332.3	330.0
50°	1383.7	684.0	380.2	377.5	377.9	369.2	341.1	334.6	324.1	319.5	316.2
52.5°	1352.4	632.0	356.7	357.7	359.0	344.8	321.3	316.7	308.0	301.5	299.7
55°	1264.5	551.0	333.7	337.4	341.1	313.9	306.6	295.1	288.2	279.0	279.4
57.5°	1114.0	443.7	301.5	307.5	315.3	285.4	279.9	265.6	255.5	248.1	247.2
60°	746.6	315.8	253.2	255.5	273.0	261.0	260.5	246.3	232.5	226.0	222.3
62.5°	440.5	241.2	218.7	216.3	215.9	222.8	234.3	229.2	211.3	198.9	202.5
65°	230.6	208.5	203.5	195.6	191.0	189.2	197.9	200.2	188.3	174.9	174.0
67.5°	193.8	193.8	189.7	186.9	180.4	172.6	167.1	159.7	157.9	154.2	149.6
70°	176.3	180.9	179.5	173.1	167.6	158.8	144.5	132.6	121.1	116.9	119.7
72.5°	153.7	158.3	158.3	155.1	147.8	134.4	120.6	106.8	97.1	89.8	88.8
75°	118.3	120.6	126.1	122.4	112.8	104.5	90.2	76.0	66.7	59.8	58.5
77.5°	75.5	79.2	79.2	78.7	71.8	64.0	54.8	44.7	37.7	32.7	31.3
80°	50.2	52.5	54.3	52.5	47.9	41.9	35.0	28.1	23.0	18.9	18.0
82.5°	36.8	39.6	41.0	39.1	34.5	29.9	24.9	19.8	14.7	11.5	10.6
85°	14.3	14.7	16.6	19.8	19.3	18.9	15.2	11.0	8.3	6.0	5.5
87.5°	3.7	3.2	3.7	3.7	3.2	2.8	2.8	2.8	2.8	1.4	1.8
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)