

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: P318185

Luminaire Tested: **GLEON-SA1A-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3519 lumens
Efficiency: N/A
Efficacy: 103.5 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

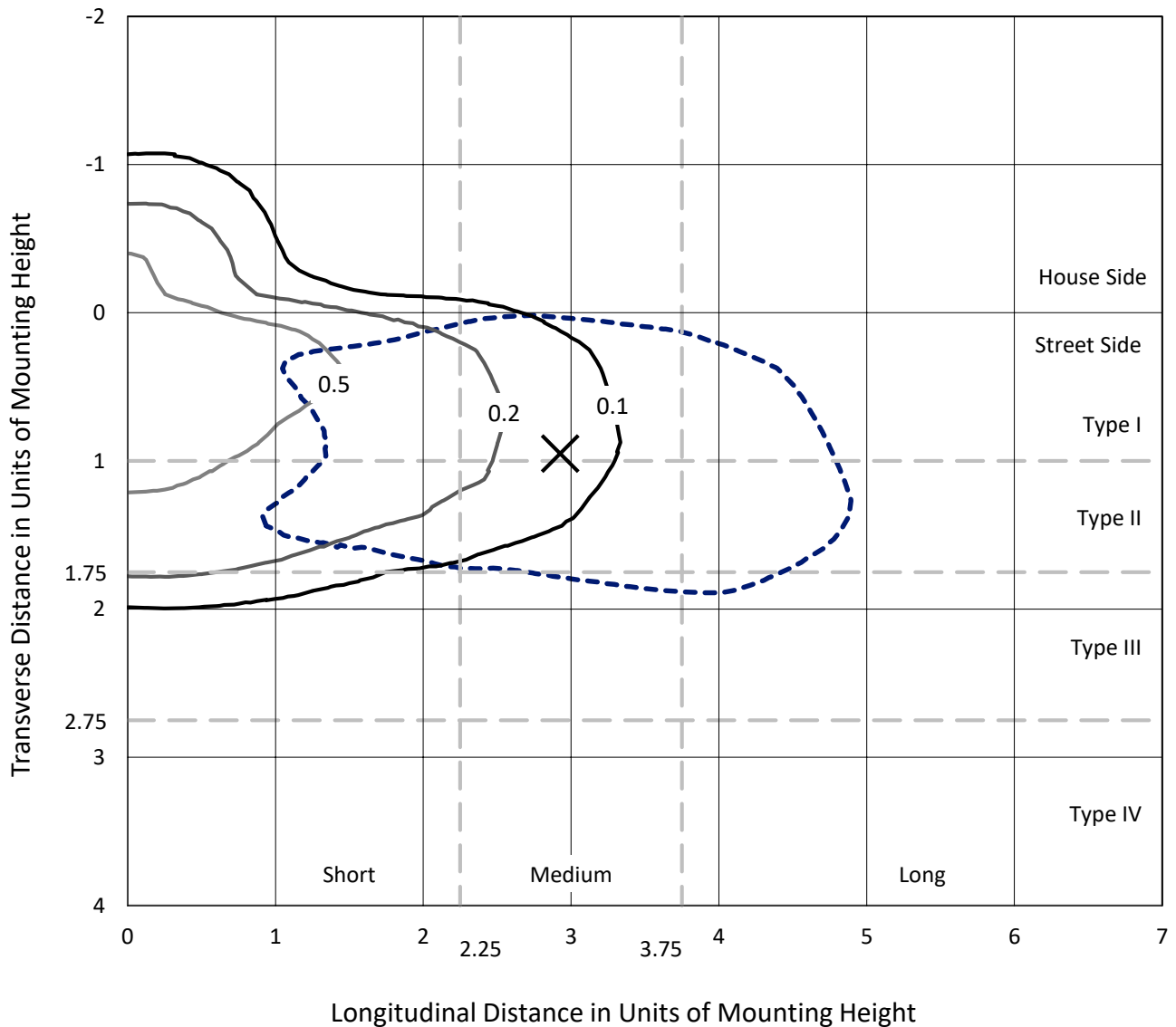
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318185
 CATALOG NUMBER: GLEON-SA1A-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

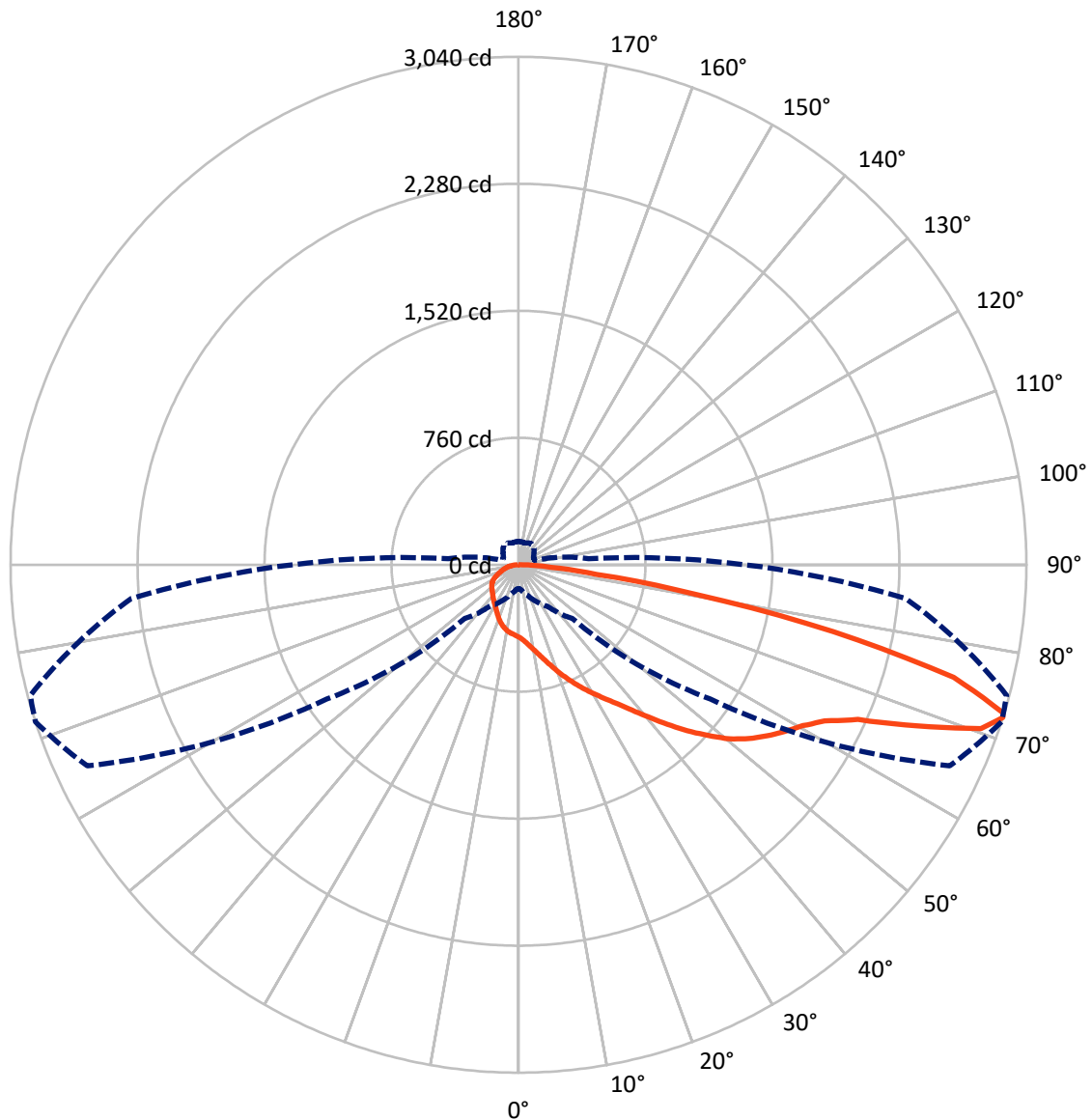
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GLEON-SA1A-827-U-T2

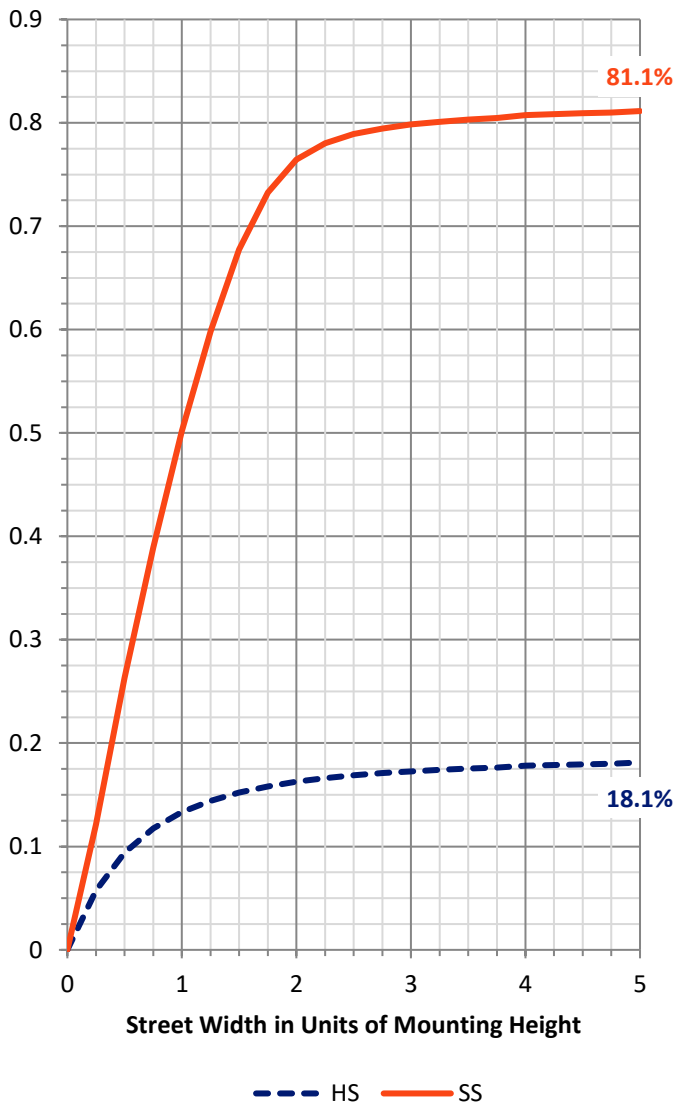
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	652.8	0.0	652.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	2866.2	0.0	2866.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	3519.0	0.0	3519.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.2
10°-20°	140.2	4.0
20°-30°	245.6	7.0
30°-40°	364.2	10.4
40°-50°	532.7	15.1
50°-60°	733.0	20.8
60°-70°	816.0	23.2
70°-80°	552.9	15.7
80°-90°	90.9	2.6
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°	3519.0	100.0
0°-180°	3519.0	100.0

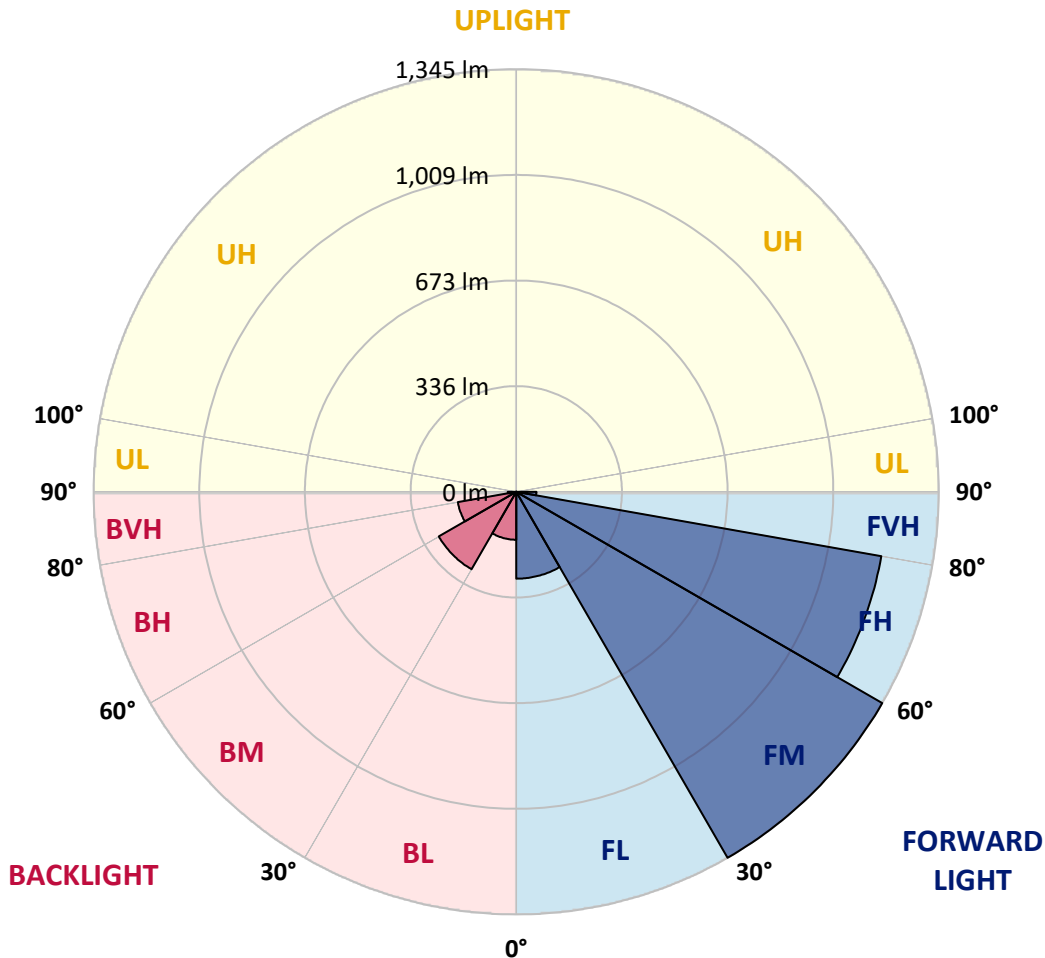


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 CATALOG NUMBER: GLEON-SA1A-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.6	7.9			
FM (30°-60°)	1345.4	38.2			
FH (60°-80°)	1180.1	33.5			G1/1800
FVH (80°-90°)	64.1	1.8			G1/100
BL (0°-30°)	152.6	4.3	B1/500		
BM (30°-60°)	284.6	8.1	B1/1000		
BH (60°-80°)	188.9	5.4	B1/500		G1/500
BVH (80°-90°)	26.8	0.8			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: P318185
 CATALOG NUMBER: GLEON-SA1A-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	432.9	432.9	432.9	432.9	432.9	432.9	432.9	432.9	432.9	432.9	432.9
2.5°	478.2	477.5	475.0	475.0	470.1	466.0	458.3	453.0	446.9	444.7	437.4
5°	524.5	524.8	521.6	519.4	512.3	503.6	490.4	478.4	466.4	461.5	446.6
7.5°	563.4	562.9	562.1	560.3	553.6	544.6	526.8	509.0	491.3	484.1	458.4
10°	588.4	589.5	590.2	591.1	588.3	581.8	565.0	543.3	520.2	510.2	472.4
12.5°	601.0	602.9	606.3	612.1	616.7	616.0	603.8	580.8	553.2	540.8	490.0
15°	608.4	610.9	616.3	626.7	639.6	647.0	643.8	622.9	592.3	576.9	511.4
17.5°	613.0	615.0	623.3	637.2	656.5	676.1	684.7	667.3	636.4	618.8	536.0
20°	616.1	617.7	628.0	644.4	669.3	700.6	724.6	720.2	685.0	662.2	561.7
22.5°	623.2	624.5	634.3	650.8	678.4	718.8	763.0	769.5	736.2	710.4	589.2
25°	642.8	642.8	651.0	662.5	688.5	734.5	795.5	824.4	788.6	758.5	614.7
27.5°	680.2	679.9	682.9	686.9	706.5	750.5	824.4	872.9	842.8	810.0	639.4
30°	724.6	727.0	727.4	725.4	734.6	770.5	851.2	924.0	897.5	862.1	664.7
32.5°	781.6	783.2	781.4	775.0	773.6	798.9	877.5	977.6	956.6	916.5	687.9
35°	854.1	851.1	845.4	832.3	819.8	836.8	907.5	1031.1	1023.0	982.3	719.7
37.5°	931.8	931.9	924.9	895.2	878.0	885.2	949.0	1091.8	1103.3	1060.6	760.6
40°	994.1	997.3	1001.7	962.7	940.4	950.4	1001.7	1162.2	1198.3	1153.4	813.8
42.5°	1037.6	1041.3	1053.7	1029.2	1006.0	1024.7	1063.7	1237.4	1305.0	1260.5	876.0
45°	1083.6	1085.7	1094.4	1083.8	1069.1	1111.1	1133.6	1315.1	1417.8	1374.6	945.7
47.5°	1132.1	1134.2	1143.2	1136.2	1128.4	1191.8	1206.6	1388.4	1525.9	1500.0	1020.1
50°	1191.9	1193.4	1201.9	1189.1	1191.6	1252.6	1271.8	1455.7	1639.1	1612.7	1094.7
52.5°	1273.6	1273.9	1285.7	1274.2	1262.8	1297.2	1327.9	1519.1	1728.0	1715.5	1169.4
55°	1337.6	1341.4	1380.0	1377.5	1371.0	1337.7	1374.8	1579.4	1807.2	1813.1	1248.6
57.5°	1296.7	1311.9	1389.9	1444.9	1498.5	1438.4	1438.1	1647.4	1880.9	1909.0	1335.7
60°	1135.7	1156.3	1271.3	1393.3	1560.9	1613.6	1569.7	1730.4	1955.3	2004.0	1444.9
62.5°	811.1	845.0	1000.8	1195.7	1475.3	1729.7	1837.5	1862.1	2056.4	2114.0	1586.8
65°	410.0	435.7	566.3	801.0	1178.7	1653.8	2128.5	2150.5	2232.3	2283.4	1805.3
67.5°	249.1	258.8	322.5	445.5	722.6	1288.2	2223.5	2631.1	2572.5	2599.6	2116.8
70°	183.6	190.7	230.5	295.9	415.6	756.0	1932.0	2974.2	2935.6	2932.6	2347.0
72°	143.0	148.2	183.3	239.1	303.9	453.5	1400.3	2847.5	3039.6	3024.3	2325.9
72.5°	135.6	140.2	172.2	225.0	287.2	411.1	1259.0	2762.1	3032.1	3025.2	2298.7
75°	106.7	110.0	127.5	174.0	224.8	233.2	689.9	2140.5	2689.8	2801.6	2067.5
77.5°	88.3	88.8	98.0	126.6	175.2	164.9	338.9	1485.1	1926.1	2049.1	1464.5
80°	72.0	72.6	76.9	88.8	132.6	122.0	160.9	854.0	1078.4	1079.7	696.5
82.5°	57.3	57.4	62.3	64.9	95.2	87.2	92.2	400.9	471.2	453.3	250.3
85°	40.3	39.5	60.8	53.3	62.3	56.0	50.9	158.7	194.8	186.4	78.4
87.5°	13.4	13.9	27.0	34.5	36.4	31.7	22.7	60.8	73.5	72.9	24.8
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: P318185
 CATALOG NUMBER: GLEON-SA1A-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	432.9	432.9	432.9	432.9	432.9	432.9	432.9	432.9	432.9	432.9	432.9
2.5°	435.1	431.2	425.5	419.2	414.3	409.2	405.4	403.5	401.3	399.5	401.7
5°	439.7	432.4	420.3	408.5	399.7	392.0	386.4	383.5	380.8	379.0	379.3
7.5°	447.2	435.5	415.1	397.8	385.7	377.3	371.6	369.7	368.0	367.5	368.1
10°	455.2	437.9	408.2	385.2	371.4	364.5	361.9	363.3	364.5	365.6	366.8
12.5°	464.3	440.1	398.2	370.4	358.7	356.0	358.5	364.3	368.6	371.1	372.7
15°	476.2	442.0	386.5	355.6	347.7	350.8	359.4	369.4	376.8	381.6	382.3
17.5°	487.1	441.9	371.6	340.7	338.9	347.7	360.7	374.9	384.8	391.5	392.8
20°	498.4	438.6	354.3	326.2	329.9	344.5	361.3	378.4	390.4	398.2	400.0
22.5°	508.9	432.9	335.3	313.0	322.4	340.1	359.0	376.3	388.3	394.6	396.6
25°	516.0	423.0	316.0	301.8	315.8	334.8	351.5	365.4	374.4	377.6	378.0
27.5°	519.7	410.0	297.8	292.1	308.9	326.1	337.6	344.5	347.0	346.8	346.3
30°	520.2	392.9	282.2	284.3	300.9	313.2	318.7	317.3	314.1	308.5	309.0
32.5°	518.6	373.7	269.1	276.7	290.7	297.6	297.8	291.4	282.7	273.8	271.4
35°	519.1	354.8	257.6	268.3	278.3	281.3	278.6	269.1	257.2	245.8	243.4
37.5°	524.4	338.3	247.7	258.4	264.6	265.4	261.4	251.4	242.7	231.5	230.6
40°	537.1	326.5	238.2	247.4	250.9	251.3	245.6	238.6	239.3	233.4	233.2
42.5°	560.0	321.5	229.9	235.9	238.1	238.8	234.5	230.0	236.3	232.4	231.1
45°	589.6	322.7	222.8	224.6	228.6	232.0	229.4	223.9	226.3	209.5	203.9
47.5°	623.8	330.4	217.3	214.9	221.9	228.3	224.2	215.9	207.3	190.6	187.4
50°	663.8	342.4	212.2	205.4	214.5	223.2	219.1	207.3	194.4	186.2	185.1
52.5°	705.4	357.1	207.1	194.8	205.1	219.3	217.3	205.4	189.4	181.4	179.9
55°	752.7	371.9	200.7	182.6	195.1	217.5	216.4	198.3	185.6	181.1	180.1
57.5°	811.5	388.7	192.2	169.9	185.6	211.0	207.6	194.1	181.8	178.4	178.0
60°	888.0	413.5	179.9	156.3	174.1	200.9	200.2	187.9	175.6	173.1	172.7
62.5°	1002.9	454.6	163.1	142.7	161.3	183.8	190.5	179.6	169.0	168.9	169.1
65°	1181.0	516.4	144.8	130.9	148.3	169.4	179.2	171.0	162.4	164.8	165.2
67.5°	1387.5	567.7	126.9	119.2	135.1	155.7	169.0	162.4	153.5	159.8	159.9
70°	1456.2	521.9	111.1	107.7	121.4	142.5	158.0	152.9	143.9	150.2	149.6
72°	1355.1	421.3	100.9	99.0	111.1	131.6	148.2	144.1	135.2	139.5	137.9
72.5°	1323.3	401.7	98.4	96.8	108.3	128.8	145.6	141.9	133.0	136.7	135.2
75°	1180.4	348.8	84.6	84.9	94.5	115.2	131.3	130.1	121.0	121.4	120.9
77.5°	856.2	255.8	71.2	73.7	80.5	101.3	116.9	116.2	106.3	104.4	104.1
80°	397.3	130.5	58.0	59.1	66.2	84.7	99.7	98.8	90.8	88.5	87.1
82.5°	136.1	62.0	43.6	44.3	51.3	68.2	86.5	85.9	79.2	74.8	72.0
85°	48.6	30.9	30.5	29.8	36.6	53.7	75.4	72.1	62.3	53.1	52.8
87.5°	15.8	13.2	15.8	15.6	21.3	36.4	54.8	46.6	45.2	37.6	36.8
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)