

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: P322685

Luminaire Tested: **GLEON-SA1C-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3867 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

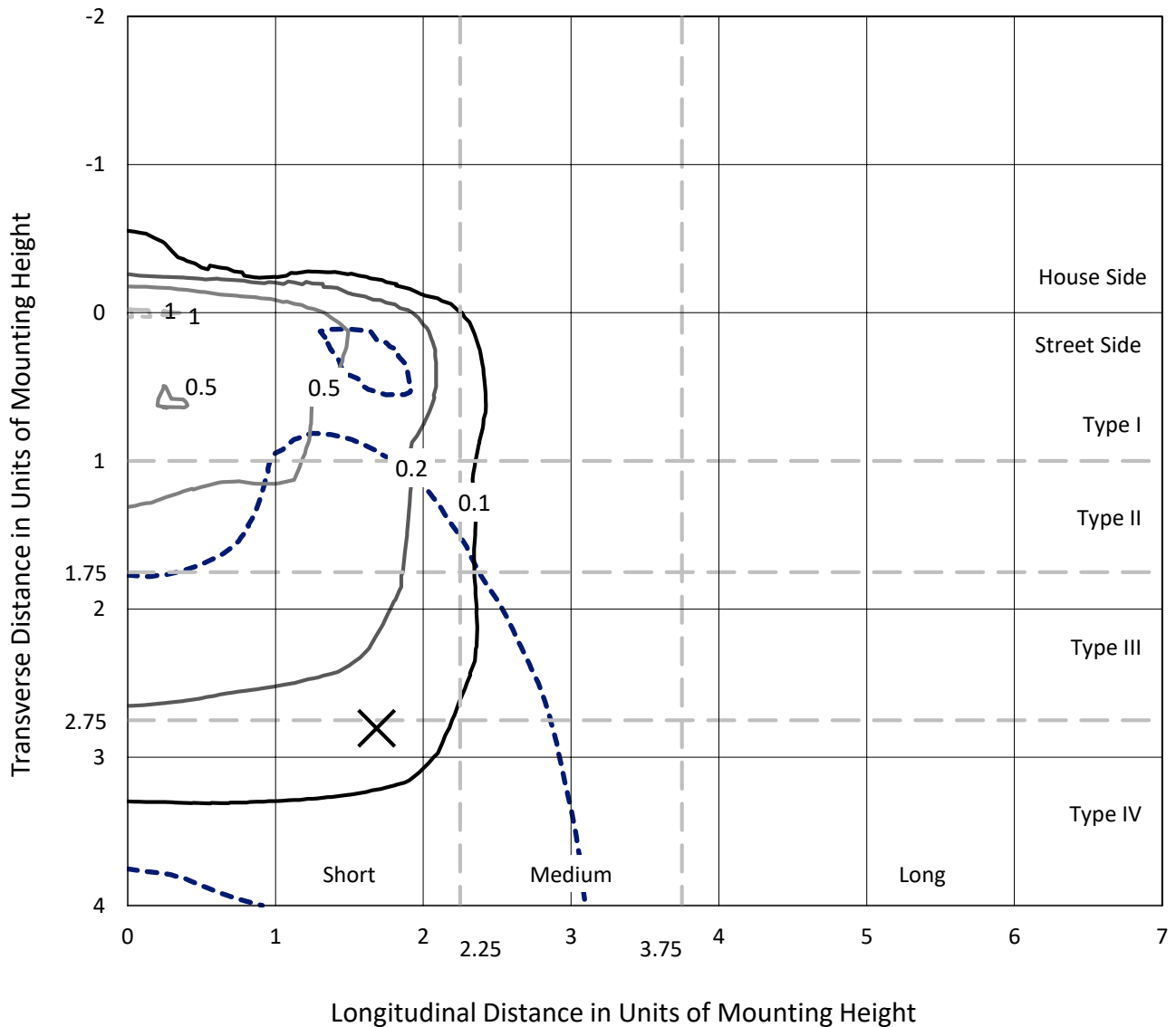
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322685
 CATALOG NUMBER: GLEON-SA1C-827-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

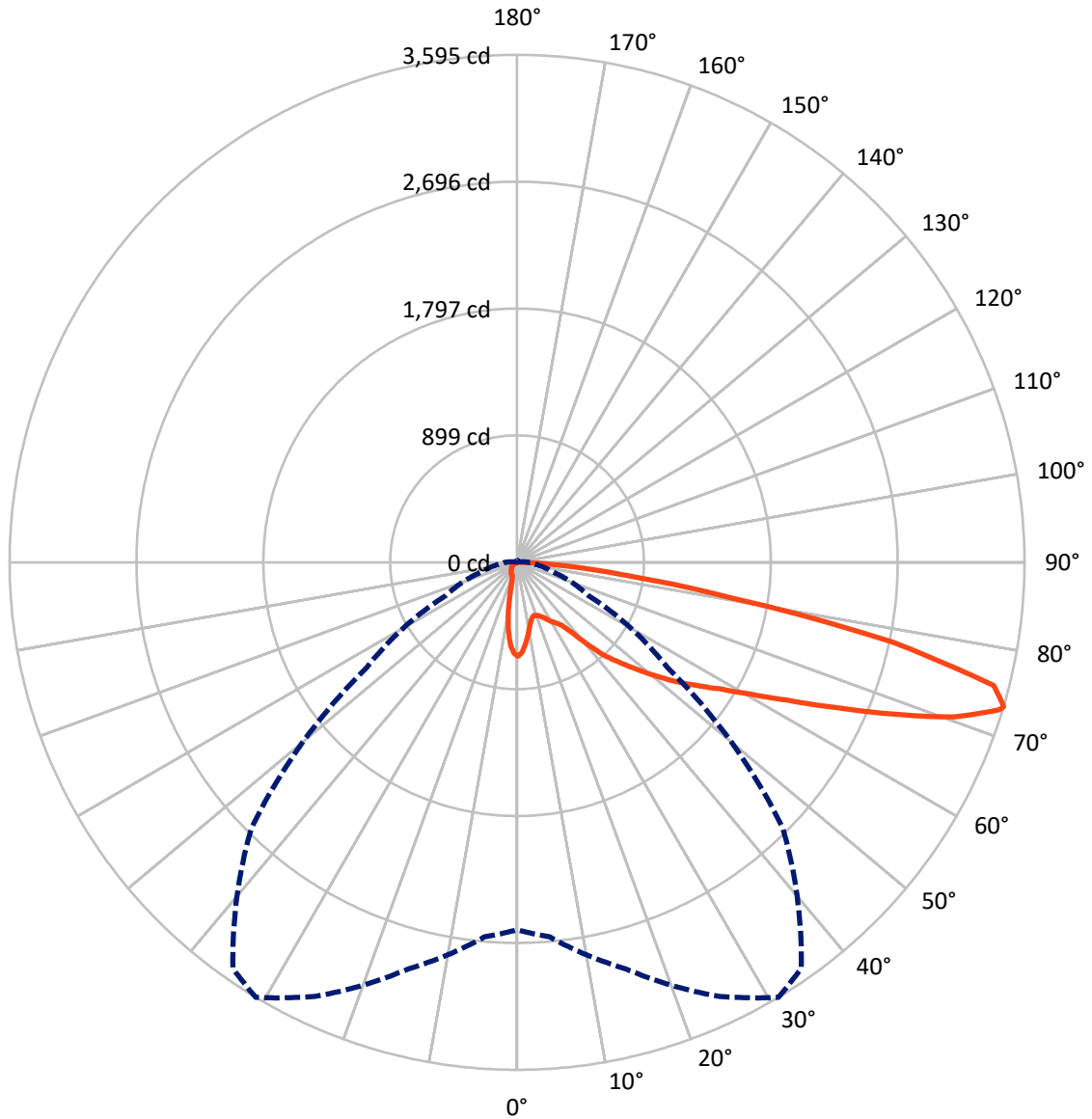
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P322685
CATALOG NUMBER: GLEON-SA1C-827-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P322685
 CATALOG NUMBER: GLEON-SA1C-827-U-T4FT-HSS

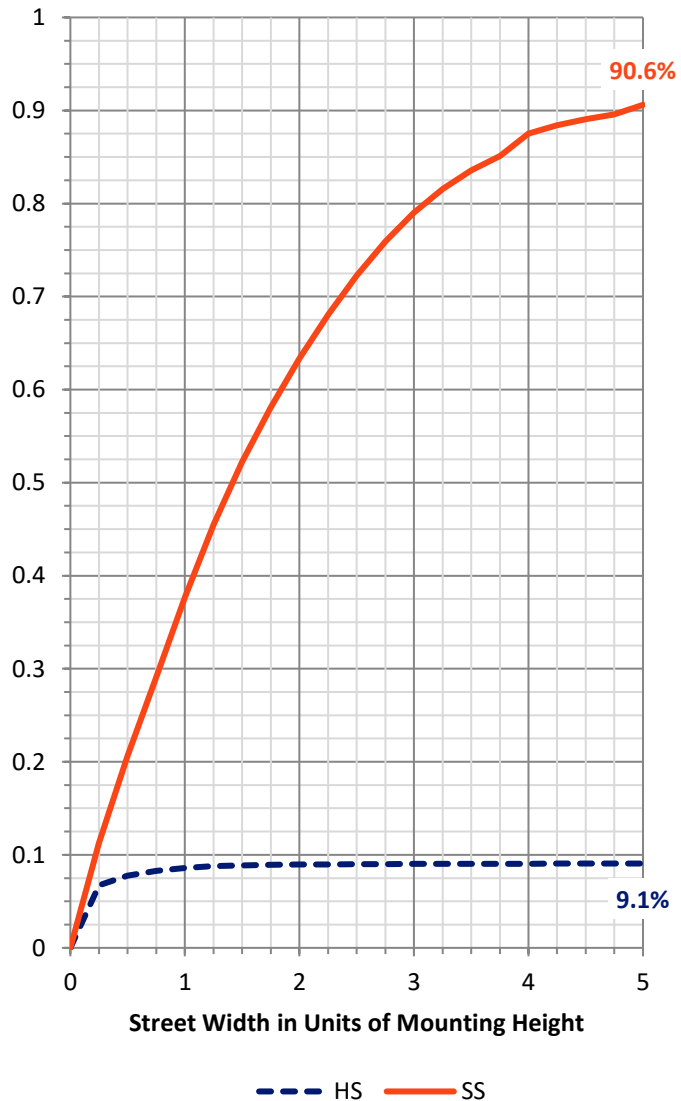
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	352.5	0.0	352.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	3514.5	0.0	3514.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	3867.0	0.0	3867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	1.4
10°-20°	119.8	3.1
20°-30°	179.5	4.6
30°-40°	285.5	7.4
40°-50°	509.9	13.2
50°-60°	791.2	20.5
60°-70°	1051.8	27.2
70°-80°	791.1	20.5
80°-90°	83.1	2.1
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°	3867.0	100.0
0°-180°	3867.0	100.0

Coefficient of Utilization

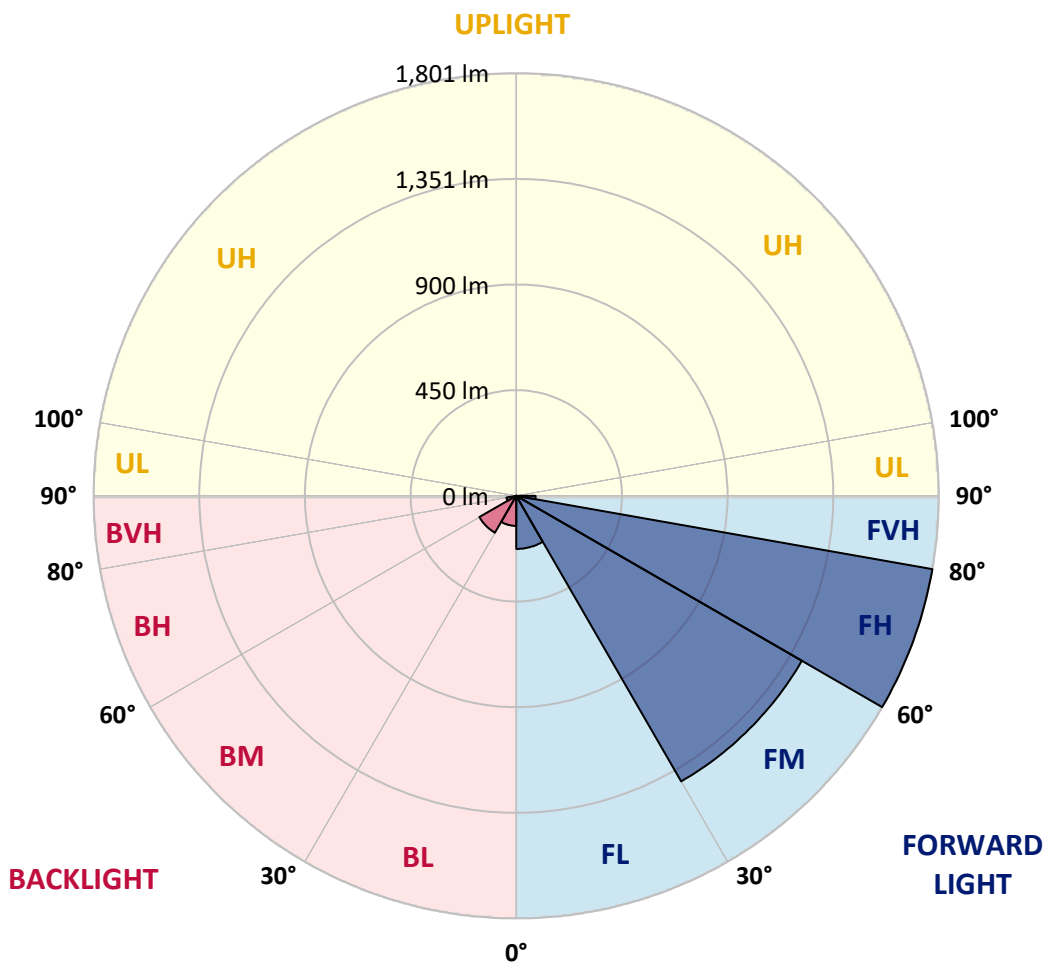


REPORT NUMBER: P322685
 CATALOG NUMBER: GLEON-SA1C-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.2	5.9			
FM (30°-60°)	1405.1	36.3			
FH (60°-80°)	1800.7	46.6			G2/5000
FVH (80°-90°)	82.4	2.1			G1/100
BL (0°-30°)	128.2	3.3	B1/500		
BM (30°-60°)	181.4	4.7	B0/220		
BH (60°-80°)	42.2	1.1	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





REPORT NUMBER: P322685

CATALOG NUMBER: GLEON-SA1C-827-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3
2.5°	630.5	633.2	636.0	636.6	641.3	641.5	648.3	653.4	658.5	663.4	665.1
5°	565.8	570.1	575.3	580.4	590.4	594.4	611.0	628.0	644.3	659.8	667.4
7.5°	496.7	501.6	508.8	521.5	532.7	540.4	566.7	597.0	627.3	655.9	672.3
10°	433.7	438.3	445.8	459.3	476.5	487.1	522.5	564.5	608.9	652.3	679.7
12.5°	393.6	396.1	400.2	414.6	430.1	442.0	483.7	535.7	593.8	652.1	691.6
15°	386.2	387.0	383.6	390.0	402.1	413.7	455.8	512.4	582.3	655.1	707.1
17.5°	397.9	397.6	386.2	385.5	395.1	404.6	442.2	496.3	574.1	662.1	727.2
20°	415.7	414.4	394.7	391.1	401.4	410.2	441.3	490.3	571.1	673.8	751.6
22.5°	439.4	437.1	406.3	402.5	413.5	422.7	453.0	496.2	573.7	689.5	780.0
25°	468.7	465.3	426.1	422.0	433.1	442.4	474.0	513.0	581.7	708.7	816.0
27.5°	501.8	496.9	457.9	447.1	459.8	469.5	502.0	538.7	594.2	728.9	860.0
30°	533.1	526.6	491.4	473.6	489.2	499.9	532.3	569.4	614.2	760.1	920.4
32.5°	564.5	557.3	521.3	500.1	514.1	525.9	563.5	611.6	651.9	807.8	1000.6
35°	636.8	629.2	585.1	550.1	549.9	556.5	607.2	669.3	701.7	874.2	1096.4
37.5°	758.4	754.1	712.1	645.6	627.9	620.5	666.8	738.2	773.2	965.6	1204.4
40°	891.6	887.9	840.7	780.6	753.5	735.3	752.4	834.1	874.2	1077.3	1314.8
42.5°	1042.1	1024.1	940.1	922.1	897.9	884.1	868.7	952.4	998.4	1198.8	1424.1
45°	1178.7	1148.4	1039.4	1012.2	1006.7	1010.1	1018.6	1111.3	1138.0	1343.1	1533.1
47.5°	1260.1	1236.2	1152.6	1126.5	1125.0	1147.5	1211.8	1290.9	1277.1	1469.0	1629.1
50°	1337.5	1315.9	1246.4	1252.9	1259.9	1290.5	1431.1	1475.6	1404.1	1583.1	1717.1
52.5°	1400.1	1367.2	1330.8	1367.0	1401.4	1450.8	1657.4	1641.4	1494.1	1673.9	1792.4
55°	1436.2	1421.3	1438.9	1475.2	1539.9	1620.2	1871.1	1779.3	1560.0	1756.8	1842.5
57.5°	1568.7	1539.4	1574.4	1605.8	1690.2	1802.4	2054.1	1882.1	1607.5	1808.1	1854.1
60°	1729.0	1705.3	1725.9	1778.2	1892.1	2024.0	2225.1	1965.9	1632.3	1841.0	1824.2
62.5°	1984.1	1952.8	1940.0	1998.4	2149.4	2293.4	2354.9	2024.0	1626.8	1826.4	1721.6
65°	2325.8	2293.4	2235.9	2288.9	2481.0	2582.6	2500.1	2036.3	1588.9	1708.5	1462.4
67.5°	2675.9	2652.4	2603.2	2692.5	2865.9	2898.6	2653.5	2006.4	1467.1	1385.3	1033.2
70°	2907.1	2897.1	2929.1	3126.6	3281.2	3271.8	2794.3	1845.7	1143.5	851.9	511.1
72.5°	2740.4	2788.5	3024.6	3382.8	3571.7	3494.5	2722.0	1417.3	653.6	327.7	147.8
73°	2602.3	2663.8	2981.7	3392.5	3594.6	3510.0	2661.3	1300.9	557.1	258.7	112.0
75°	1810.3	1885.8	2468.5	3159.5	3487.5	3344.2	2218.3	796.3	258.1	114.7	45.2
77.5°	879.0	934.8	1359.2	2282.8	2712.2	2612.9	1381.0	296.7	116.6	71.7	20.8
80°	328.1	364.8	590.0	1161.9	1567.4	1608.4	607.4	112.2	77.6	57.7	10.6
82.5°	85.9	95.7	217.6	518.1	803.3	840.7	191.5	56.6	56.8	47.5	6.4
85°	27.4	31.4	67.9	232.6	378.5	332.3	50.0	27.4	41.3	35.4	3.6
87.5°	3.4	4.4	21.6	54.7	83.4	46.4	7.8	8.1	17.6	19.7	2.1
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: P322685

CATALOG NUMBER: GLEON-SA1C-827-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3
2.5°	666.8	665.9	666.1	661.2	657.9	651.5	644.9	641.9	638.6	637.3	638.6
5°	670.2	668.5	663.6	648.5	632.4	611.6	592.1	577.3	558.8	553.7	559.0
7.5°	675.5	672.1	657.8	626.9	591.1	551.4	506.8	474.2	447.5	430.3	436.5
10°	683.3	676.9	647.9	595.5	531.5	461.1	397.8	348.4	313.4	299.0	298.4
12.5°	696.4	684.2	635.8	554.6	458.7	364.8	281.8	228.2	199.8	181.5	181.1
15°	710.7	693.0	620.5	505.6	373.9	261.3	181.5	140.8	122.4	116.6	115.8
17.5°	728.3	703.0	600.6	445.3	285.2	173.1	118.5	106.7	106.0	105.4	105.4
20°	750.5	714.9	575.1	376.2	202.3	115.6	100.7	101.4	101.8	101.0	101.2
22.5°	776.2	727.0	544.6	302.0	136.8	96.7	96.3	97.3	97.6	97.3	97.5
25°	806.1	741.0	507.5	224.2	98.8	91.8	92.7	94.0	95.0	95.0	95.0
27.5°	843.2	758.0	462.9	156.5	85.3	86.7	89.3	91.8	93.1	93.5	93.5
30°	891.5	779.2	409.3	107.3	77.6	79.9	84.8	89.5	92.0	92.3	92.5
32.5°	952.4	803.1	347.2	79.3	71.0	72.7	78.0	85.9	90.6	91.4	91.4
35°	1022.2	830.7	280.4	69.1	66.2	66.8	71.0	80.0	88.4	90.5	90.6
37.5°	1098.7	858.0	213.3	64.5	62.3	62.3	65.3	73.0	82.9	89.3	90.1
40°	1170.0	874.4	149.5	60.9	58.7	58.7	61.3	67.0	76.3	85.9	88.0
42.5°	1235.8	880.1	104.1	57.5	55.3	55.8	58.1	62.6	69.6	79.3	81.2
45°	1303.6	879.2	75.9	53.6	51.8	53.6	55.3	58.7	63.8	69.3	69.6
47.5°	1354.7	871.2	60.2	49.8	48.6	50.9	52.4	54.7	57.5	57.1	57.1
50°	1402.6	851.9	48.4	44.7	45.4	48.1	48.8	49.6	49.8	46.2	45.8
52.5°	1438.9	821.8	38.8	39.2	42.2	44.8	44.1	43.0	41.1	36.7	36.0
55°	1451.0	763.9	30.5	32.4	37.5	40.9	38.0	35.6	32.0	28.4	27.6
57.5°	1429.0	689.2	24.8	25.2	31.6	34.4	31.2	28.4	24.4	21.4	20.8
60°	1382.5	606.1	20.4	18.9	24.4	26.9	24.8	22.0	18.4	16.1	15.9
62.5°	1290.2	517.5	16.8	14.8	18.5	20.6	19.3	17.2	14.2	12.7	12.5
65°	1096.0	414.0	13.6	11.9	14.4	16.1	14.9	13.4	11.2	10.0	9.8
67.5°	765.0	279.9	11.2	9.8	11.4	12.7	11.7	11.0	8.9	8.7	8.9
70°	369.0	134.9	9.3	7.9	8.9	9.8	9.5	8.9	8.5	9.8	11.4
72.5°	105.8	45.2	7.4	6.6	7.2	7.8	8.1	7.9	9.3	11.9	13.8
73°	81.4	36.5	7.0	6.2	6.8	7.6	7.9	7.8	9.5	12.1	13.8
75°	34.8	17.6	5.3	5.1	5.7	6.6	7.0	7.0	9.5	12.3	13.2
77.5°	15.7	9.5	3.4	4.0	4.9	5.3	5.9	5.9	7.6	9.5	9.5
80°	8.9	5.1	2.6	3.0	3.6	3.6	3.6	3.2	3.4	3.8	4.2
82.5°	5.7	3.4	2.1	2.5	2.3	1.9	1.5	1.5	1.3	1.5	1.9
85°	3.2	1.9	1.9	1.5	0.9	0.8	0.9	0.8	0.2	0.0	0.2
87.5°	1.9	1.1	0.6	0.0	0.0	0.0	0.0	0.0	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)