

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: P522629

Luminaire Tested: **GALN-SA1B-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4236 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

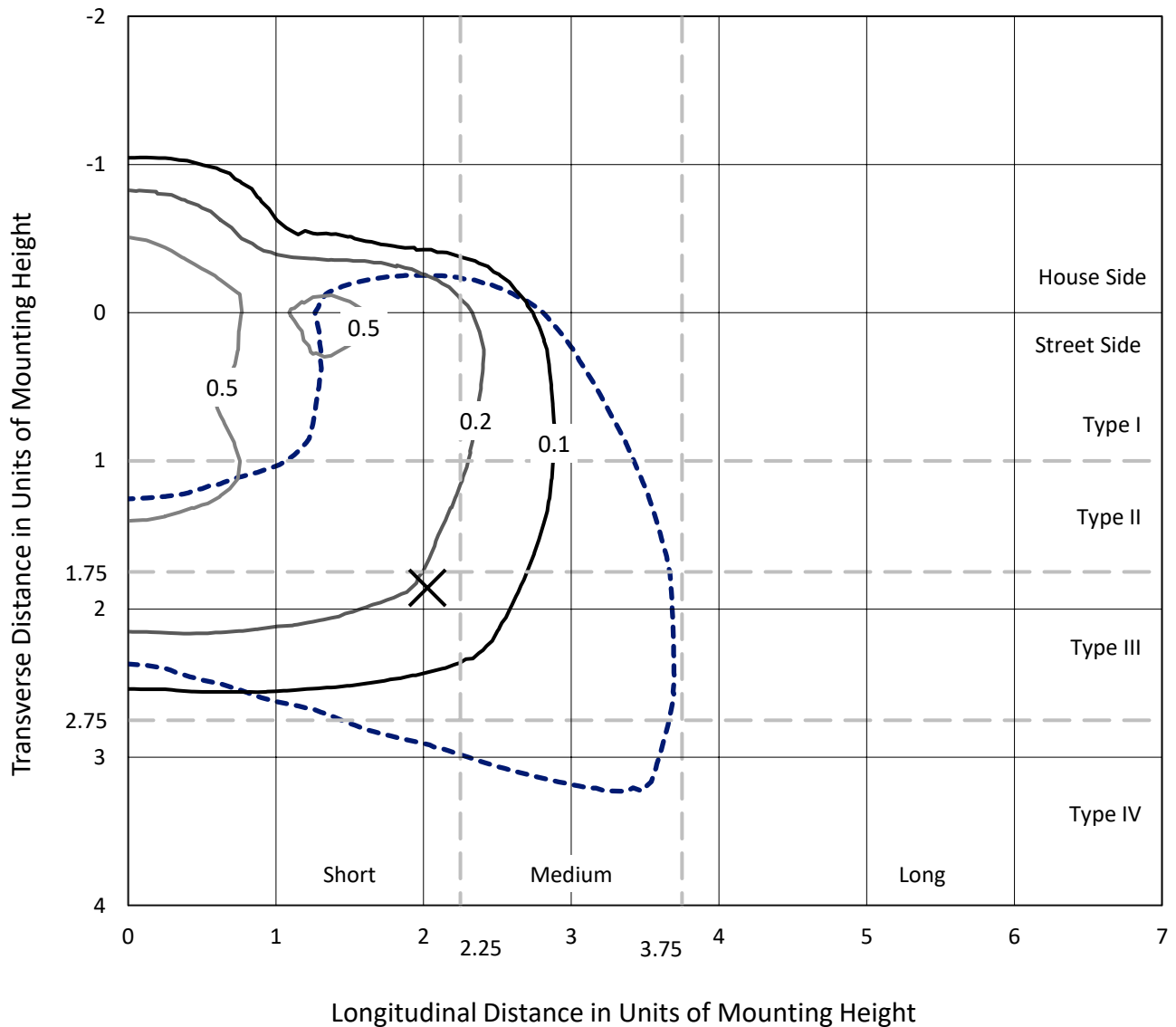
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522629
 CATALOG NUMBER: GALN-SA1B-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

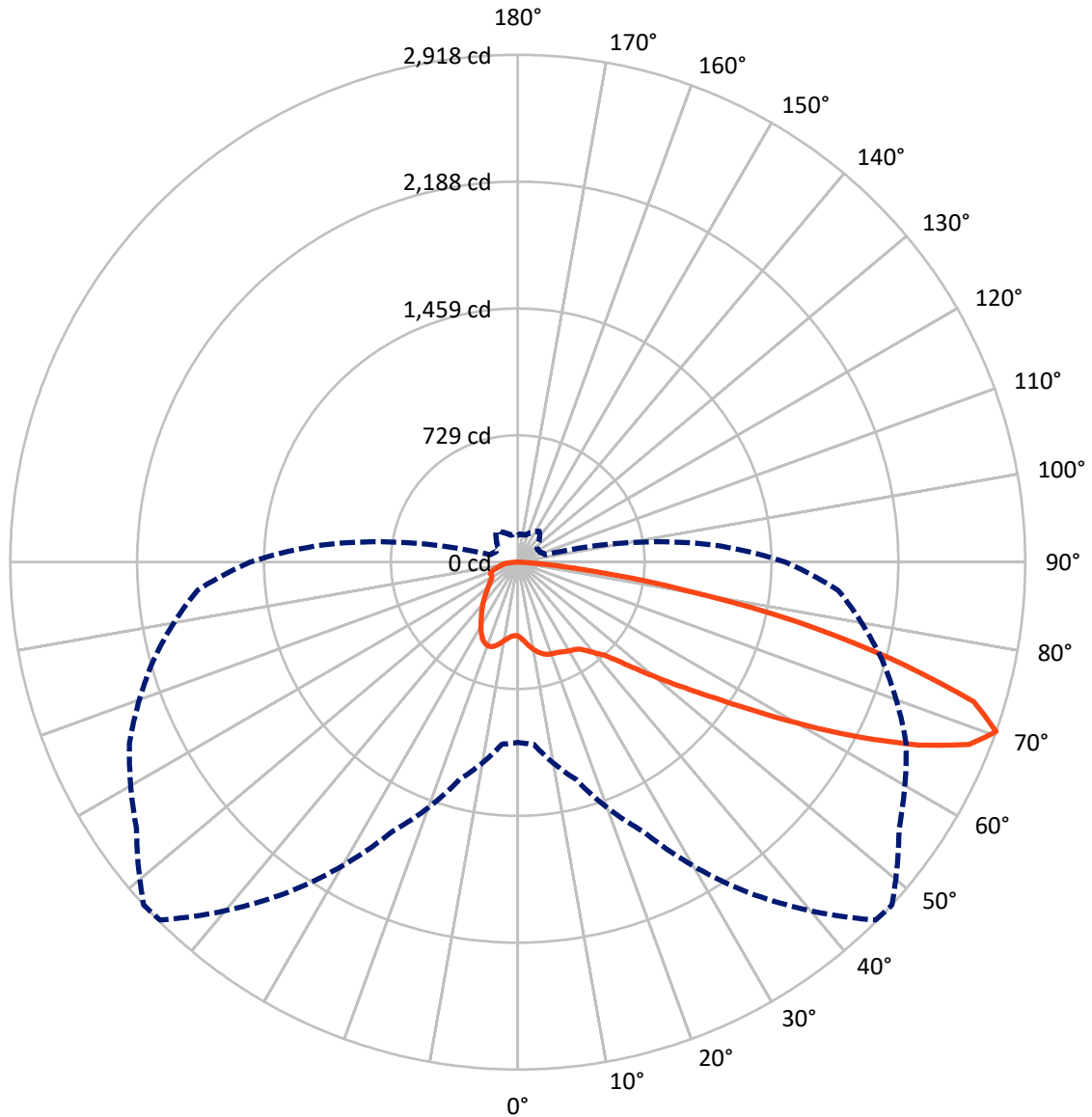
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P522629
CATALOG NUMBER: GALN-SA1B-827-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P522629

CATALOG NUMBER: GALN-SA1B-827-U-T4W

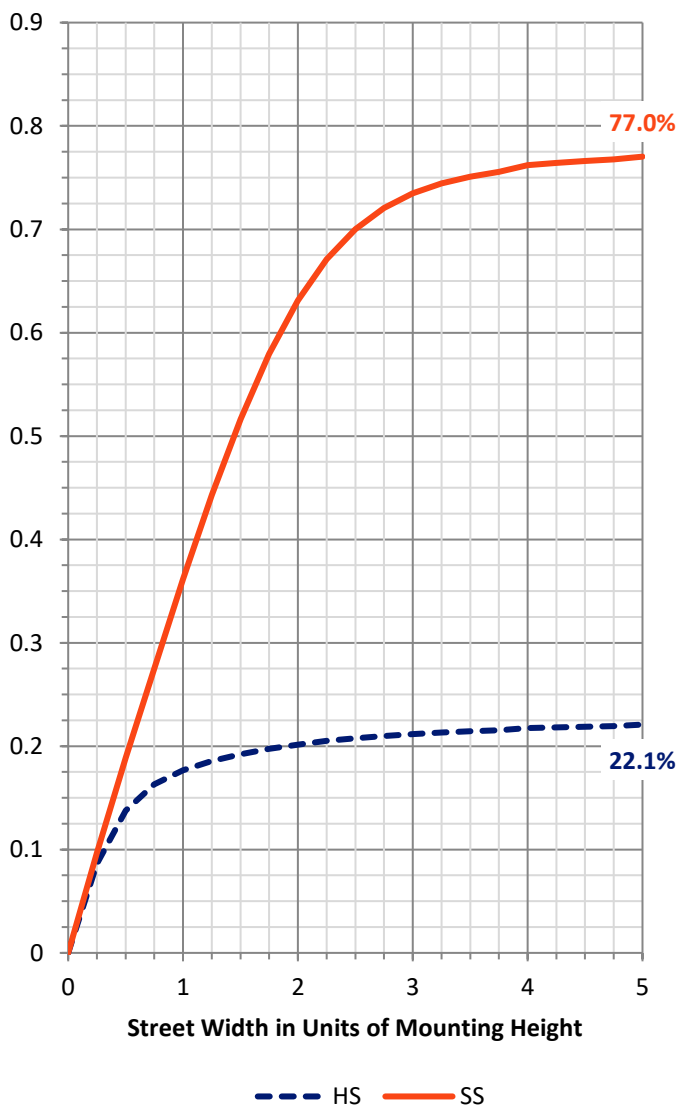
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	959.1	0.0	959.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3276.9	0.0	3276.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	4236.0	0.0	4236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	1.0
10°-20°	146.5	3.5
20°-30°	243.7	5.8
30°-40°	345.4	8.2
40°-50°	509.9	12.0
50°-60°	883.1	20.8
60°-70°	1247.5	29.4
70°-80°	717.1	16.9
80°-90°	98.9	2.3
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°	4236.0	100.0
0°-180°	4236.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522629

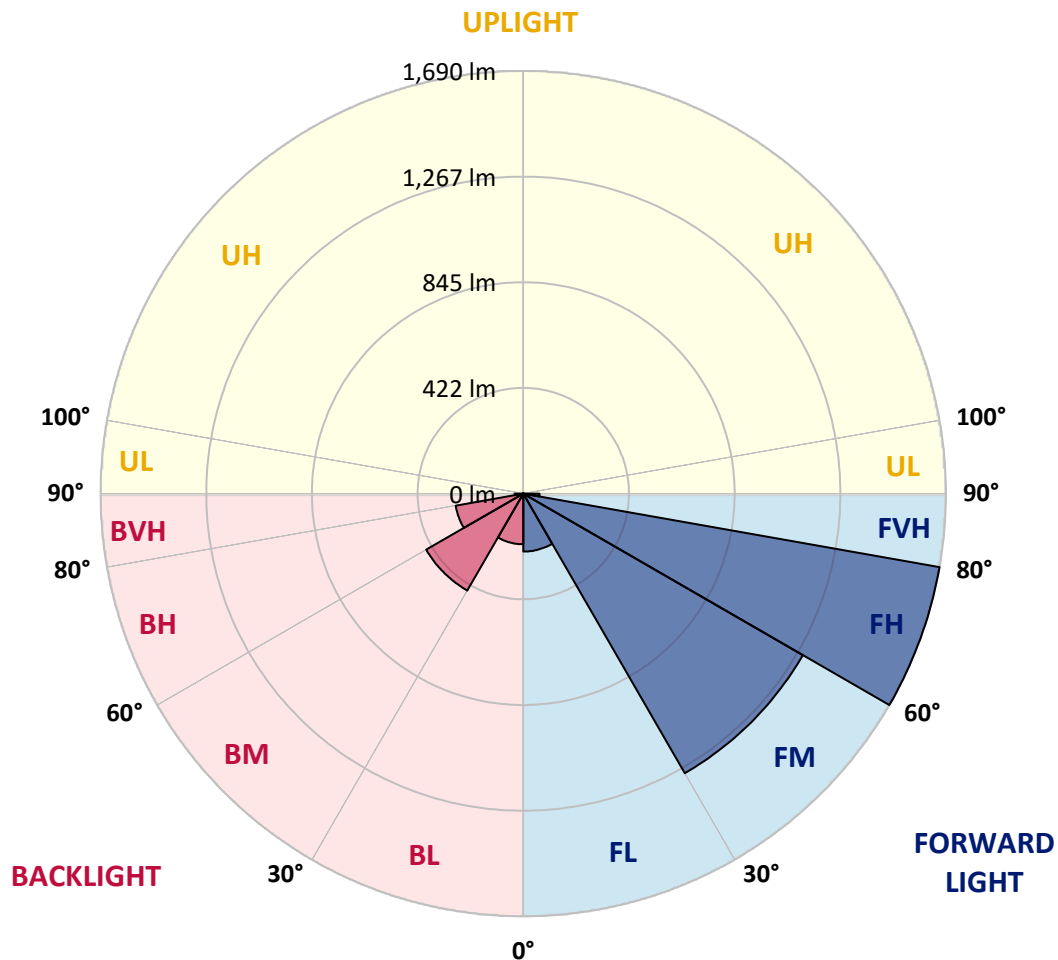
CATALOG NUMBER: GALN-SA1B-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	231.6	5.5			
FM	(30°-60°)	1290.6	30.5			
FH	(60°-80°)	1690.0	39.9			G1/1800
FVH	(80°-90°)	64.6	1.5			G1/100
BL	(0°-30°)	202.4	4.8	B1/500		
BM	(30°-60°)	447.8	10.6	B1/1000		
BH	(60°-80°)	274.6	6.5	B1/500		G1/500
BVH	(80°-90°)	34.3	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 IV Short





REPORT NUMBER: P522629

CATALOG NUMBER: GALN-SA1B-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2
2.5°	452.7	451.1	450.9	447.5	445.6	442.2	440.9	437.7	433.9	430.0	426.4
5°	488.3	488.3	486.7	481.9	474.4	466.7	463.3	457.2	446.3	437.5	430.0
7.5°	524.8	525.2	522.0	515.0	504.4	491.9	488.7	479.6	464.2	451.3	440.2
10°	556.3	556.3	552.0	542.4	529.1	515.5	512.3	502.1	484.9	468.8	454.3
12.5°	580.3	580.3	574.6	562.2	547.6	535.4	531.8	522.0	505.9	488.0	469.7
15°	595.9	594.8	588.4	574.4	560.3	549.7	547.2	539.0	524.3	506.2	485.5
17.5°	596.6	596.2	590.0	578.2	566.0	558.8	557.2	551.7	540.2	522.9	501.2
20°	583.5	584.4	580.3	571.9	566.0	562.8	562.2	560.3	552.2	536.1	514.3
22.5°	569.4	571.0	567.1	562.6	562.2	565.3	565.8	566.2	561.0	545.4	525.4
25°	566.0	567.1	563.3	559.2	561.7	570.1	571.9	573.7	569.6	556.5	538.6
27.5°	583.2	582.3	574.8	566.0	567.6	578.9	581.4	583.5	581.4	570.1	554.9
30°	632.0	629.0	614.1	588.2	580.1	588.0	590.5	596.2	596.2	587.8	572.6
32.5°	713.6	707.9	680.5	629.7	601.4	596.6	599.1	608.4	613.2	606.6	590.0
35°	812.6	806.7	767.5	699.3	640.4	613.8	613.2	623.6	636.3	621.5	600.0
37.5°	912.1	906.0	858.9	782.3	697.3	650.1	646.0	649.7	655.1	628.1	613.8
40°	1011.7	1004.4	963.1	875.0	766.8	698.2	687.5	671.2	668.9	649.7	640.6
42.5°	1110.3	1103.7	1082.8	979.0	850.3	745.1	728.8	700.7	709.3	697.7	689.8
45°	1209.8	1210.2	1188.0	1095.7	950.9	831.7	809.7	765.7	786.1	781.8	786.3
47.5°	1297.9	1296.8	1288.9	1209.1	1075.8	943.2	914.9	863.9	898.8	914.6	949.3
50°	1383.4	1382.7	1383.2	1337.6	1220.9	1075.8	1044.5	991.0	1069.7	1124.8	1186.9
52.5°	1505.8	1509.7	1482.2	1470.2	1397.2	1232.4	1198.0	1142.7	1271.7	1358.5	1479.7
55°	1628.7	1625.5	1604.0	1616.4	1581.7	1417.9	1381.8	1337.8	1496.5	1591.5	1773.7
57.5°	1701.0	1702.1	1724.1	1785.1	1809.6	1649.1	1616.4	1582.4	1749.3	1816.6	2035.3
60°	1766.0	1771.2	1834.5	1949.6	2016.1	1933.1	1904.1	1871.0	1981.1	2007.9	2262.4
62.5°	1786.4	1802.5	1912.9	2085.2	2217.3	2253.6	2217.6	2144.6	2201.9	2191.5	2416.4
65°	1684.7	1706.6	1904.5	2136.0	2397.1	2557.8	2534.9	2399.4	2390.1	2327.3	2441.5
67.5°	1416.7	1438.7	1692.8	2029.4	2471.4	2821.2	2798.3	2585.2	2504.3	2340.0	2251.1
70°	1036.6	1050.4	1293.4	1708.7	2322.1	2909.6	2917.5	2675.9	2463.5	2167.5	1848.3
72.5°	597.3	627.9	798.1	1202.1	1897.0	2686.1	2741.2	2487.3	2205.6	1808.2	1292.3
75°	256.8	257.5	369.0	663.0	1284.8	2159.1	2212.4	2061.8	1732.0	1250.3	690.0
77.5°	122.2	124.4	162.3	296.0	707.2	1491.8	1635.5	1456.6	1107.8	600.7	260.7
80°	79.3	80.9	99.3	146.9	346.8	865.0	965.2	840.3	488.7	214.7	112.4
82.5°	48.1	48.5	66.4	89.8	190.9	391.7	461.7	364.7	208.5	128.5	66.2
85°	29.2	29.5	40.3	55.5	115.8	135.3	139.0	137.8	122.4	84.1	35.4
87.5°	14.1	14.5	20.9	26.3	45.6	41.9	39.7	46.0	57.8	45.3	15.2
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: P522629
 CATALOG NUMBER: GALN-SA1B-827-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2
2.5°	424.8	424.1	422.5	421.8	421.4	421.6	421.4	421.4	421.6	421.6	421.6
5°	426.8	425.7	423.2	423.2	424.6	427.7	430.7	433.0	435.4	435.2	435.2
7.5°	435.7	433.6	430.7	431.6	435.0	440.0	445.2	450.2	455.2	455.6	455.4
10°	448.6	446.6	443.4	444.5	450.0	457.4	464.0	471.3	476.7	478.3	477.8
12.5°	463.3	459.2	456.5	459.7	468.3	478.3	484.6	490.1	493.9	496.2	495.3
15°	478.3	474.4	471.3	477.8	488.3	497.6	500.7	501.6	502.3	504.6	504.1
17.5°	492.8	487.6	486.4	495.1	505.0	509.1	507.3	503.4	500.5	502.3	502.1
20°	505.7	501.6	501.2	509.8	513.6	509.8	502.1	495.3	490.1	490.5	490.3
22.5°	518.0	514.8	515.2	518.9	512.7	499.6	486.9	477.6	471.9	473.1	473.8
25°	531.6	528.4	529.5	523.6	503.4	480.6	462.2	454.3	452.0	454.3	455.8
27.5°	549.2	547.2	546.5	523.8	486.9	452.4	431.6	428.6	430.7	435.7	438.2
30°	568.3	568.3	564.6	520.0	464.2	418.7	400.5	401.0	408.0	415.0	417.5
32.5°	586.6	590.5	579.2	509.6	435.0	385.8	372.0	372.4	378.5	387.2	389.4
35°	601.8	612.9	591.6	490.5	400.5	358.1	347.7	341.6	341.8	348.4	350.2
37.5°	622.7	643.3	598.9	462.2	363.8	334.6	322.8	312.1	305.1	302.4	302.4
40°	658.9	689.3	600.7	420.3	329.1	312.1	295.4	282.7	269.1	256.8	254.6
42.5°	720.4	758.7	597.1	372.0	297.9	287.4	271.1	255.5	236.6	219.4	218.1
45°	829.2	848.9	587.3	321.9	270.0	263.6	247.8	230.8	210.8	195.4	194.3
47.5°	1003.5	975.6	574.4	277.5	244.6	242.8	230.5	210.8	190.9	180.2	179.1
50°	1258.0	1175.1	572.6	245.3	224.2	225.1	215.1	197.0	179.5	170.7	169.3
52.5°	1564.5	1416.0	584.6	222.6	206.3	209.7	204.7	187.9	172.5	165.0	163.7
55°	1861.9	1632.7	591.8	204.9	189.5	195.8	196.5	182.5	168.4	160.9	160.0
57.5°	2103.3	1796.0	559.7	188.8	175.0	184.7	189.7	179.3	166.4	160.7	159.8
60°	2271.3	1873.0	468.1	174.5	164.3	175.9	187.2	179.5	171.4	172.0	172.5
62.5°	2324.8	1838.8	351.1	163.9	157.1	173.0	191.3	188.8	180.4	185.6	186.6
65°	2236.2	1697.3	254.6	155.5	150.7	175.0	203.6	195.6	177.3	181.1	181.1
67.5°	1939.4	1462.3	198.1	147.8	143.5	178.8	215.8	194.9	169.8	174.3	170.2
70°	1538.4	1131.1	165.0	139.2	135.8	173.2	216.9	187.9	160.9	161.8	154.1
72.5°	1020.9	743.7	141.9	131.0	124.0	155.7	207.6	178.8	152.3	147.1	139.4
75°	500.3	370.8	123.8	120.8	108.6	135.6	194.9	170.2	143.0	134.9	130.6
77.5°	193.8	157.8	105.6	107.9	94.5	119.5	178.2	158.0	130.8	119.7	116.3
80°	94.1	89.5	86.6	90.0	77.7	101.8	162.8	147.3	119.5	107.2	102.2
82.5°	58.5	55.3	66.4	70.0	59.8	92.9	154.4	138.3	105.2	88.9	84.8
85°	29.7	31.7	44.4	47.8	42.8	73.9	127.2	103.8	75.9	63.0	63.5
87.5°	11.3	15.2	23.3	25.2	22.9	39.0	70.0	60.5	48.7	33.1	30.6
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)