

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: P652202

Luminaire Tested: **GALN-SA1B-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P652202
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-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4845.9 lumens
Efficiency: N/A
Efficacy: 110.1 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): 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

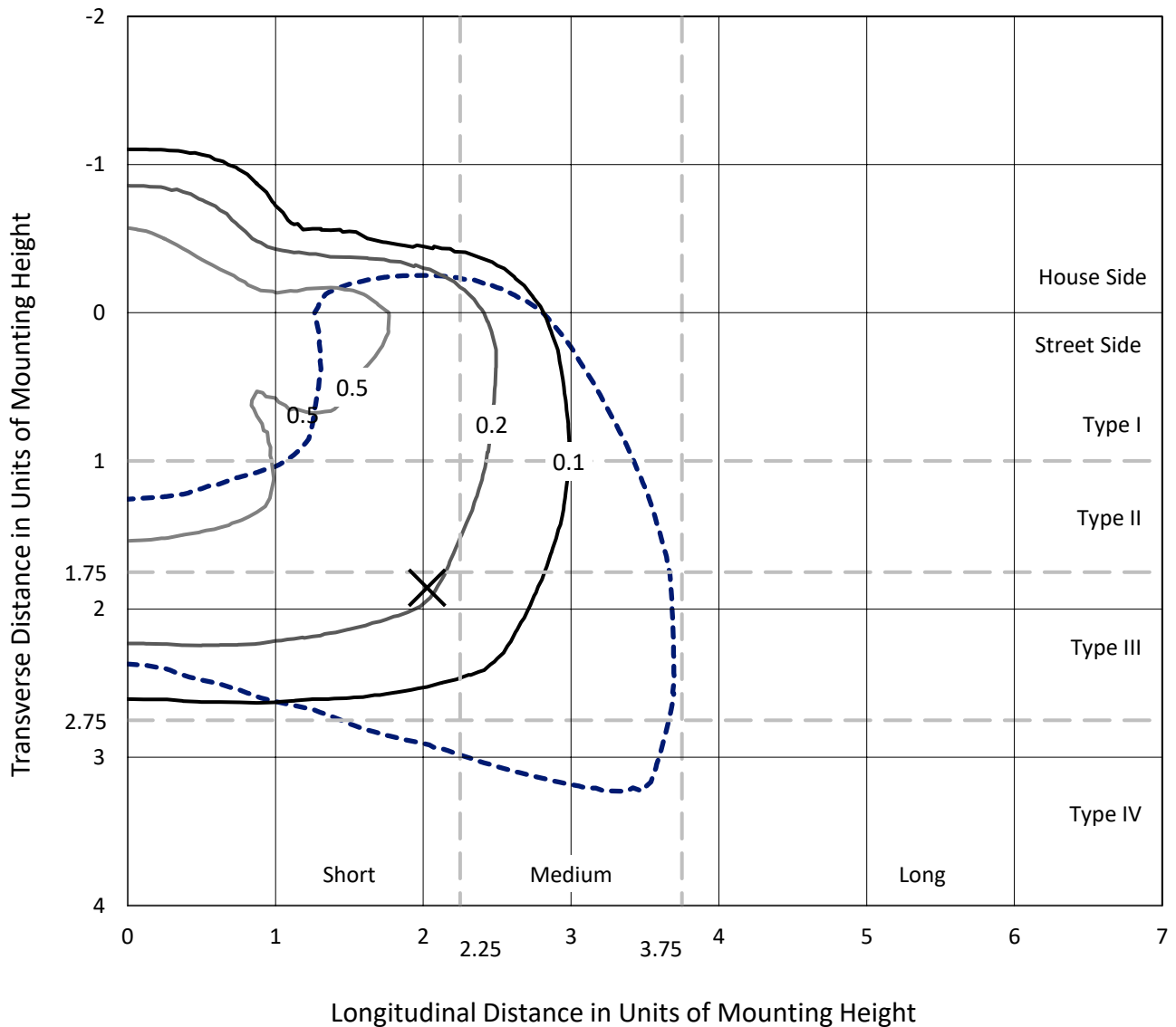




REPORT NUMBER: P652202
 CATALOG NUMBER: GALN-SA1B-840-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

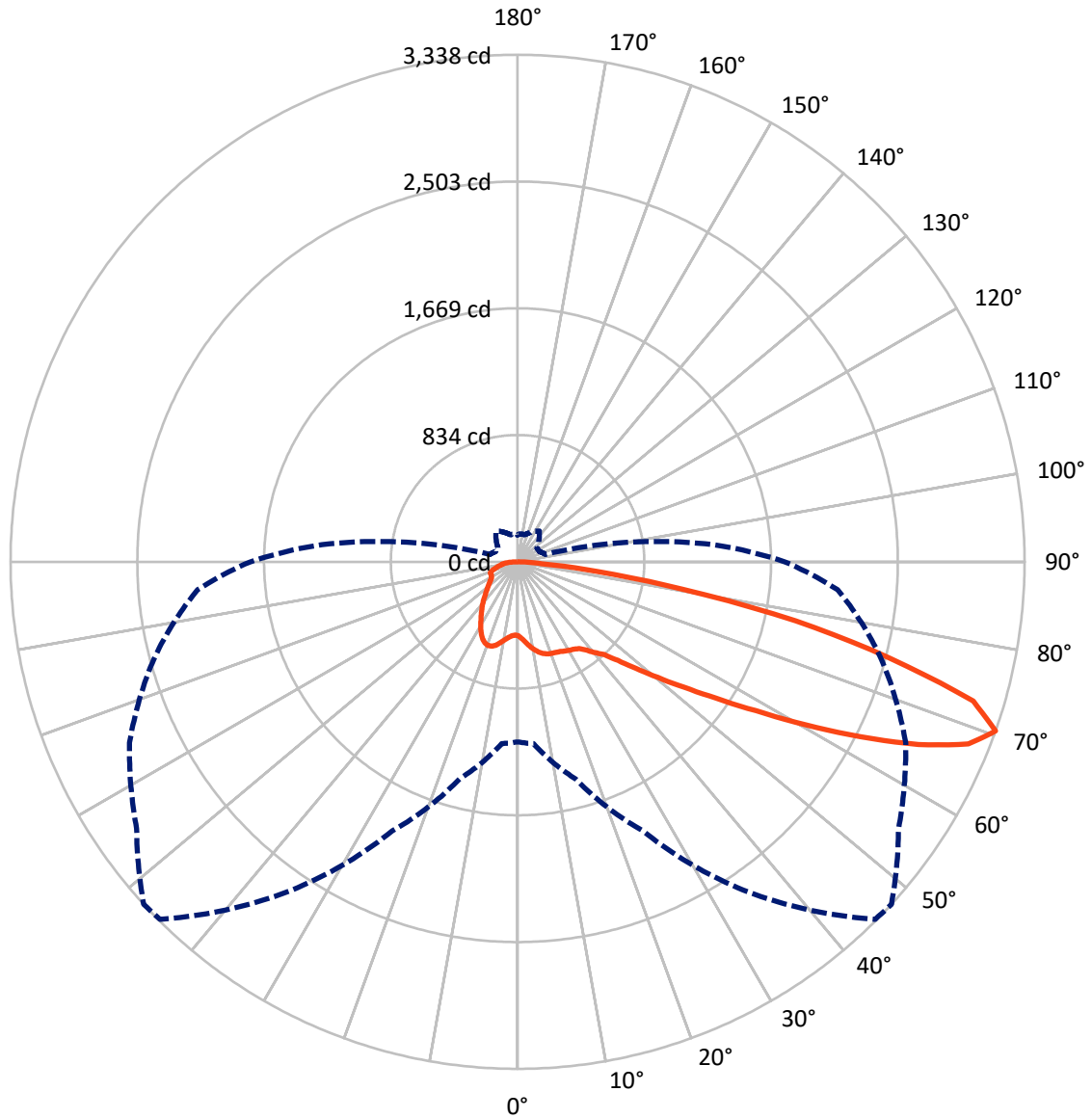
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P652202
CATALOG NUMBER: GALN-SA1B-840-U-T4W

Luminous Intensity Polar Plot



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



REPORT NUMBER: P652202
 CATALOG NUMBER: GALN-SA1B-840-U-T4W

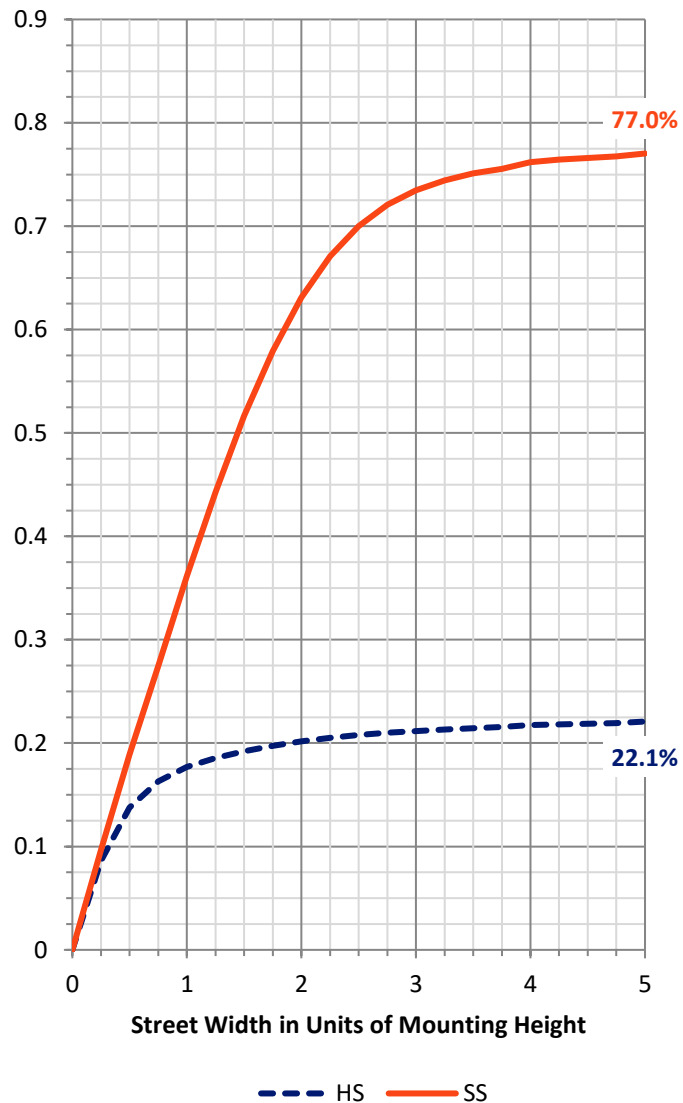
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1097.2	0.0	1097.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3748.7	0.0	3748.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	4845.9	0.0	4845.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	1.0
10°-20°	167.6	3.5
20°-30°	278.8	5.8
30°-40°	395.1	8.2
40°-50°	583.3	12.0
50°-60°	1010.3	20.8
60°-70°	1427.1	29.4
70°-80°	820.4	16.9
80°-90°	113.2	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°	4845.9	100.0
0°-180°	4845.9	100.0

Coefficient of Utilization



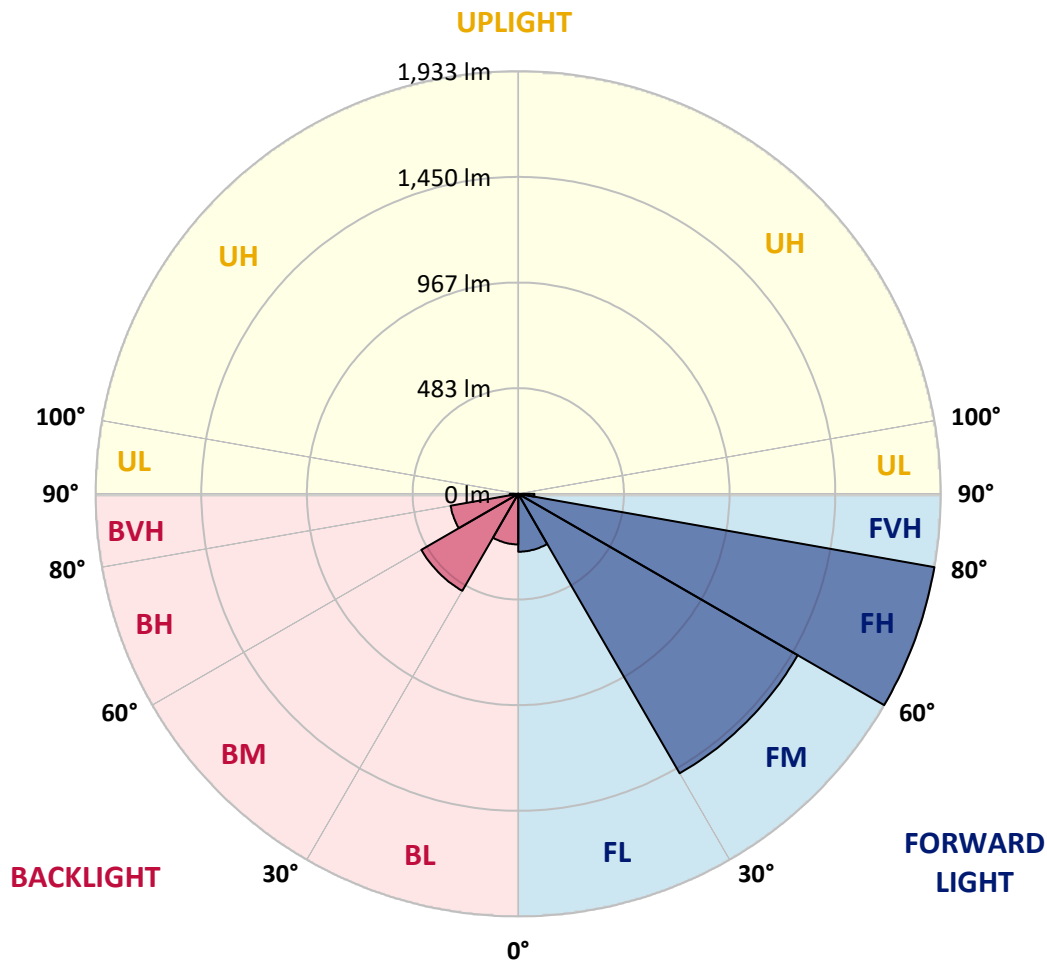
REPORT NUMBER: P652202
 CATALOG NUMBER: GALN-SA1B-840-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.0	5.5			
FM (30°-60°)	1476.4	30.5			
FH (60°-80°)	1933.3	39.9			G2/5000
FVH (80°-90°)	73.9	1.5			G1/100
BL (0°-30°)	231.6	4.8	B1/500		
BM (30°-60°)	512.3	10.6	B1/1000		
BH (60°-80°)	314.1	6.5	B1/500		G1/500
BVH (80°-90°)	39.2	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-G2

Type IV Short





REPORT NUMBER: P652202
 CATALOG NUMBER: GALN-SA1B-840-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	486.4	486.4	486.4	486.4	486.4	486.4	486.4	486.4	486.4	486.4	486.4
2.5°	517.8	516.0	515.8	511.9	509.8	505.9	504.3	500.7	496.4	491.9	487.8
5°	558.6	558.6	556.7	551.3	542.7	534.0	530.0	523.0	510.6	500.5	491.9
7.5°	600.3	600.8	597.2	589.1	576.9	562.7	559.1	548.7	531.1	516.3	503.6
10°	636.4	636.4	631.4	620.5	605.3	589.7	586.0	574.4	554.6	536.2	519.7
12.5°	663.8	663.8	657.3	643.1	626.5	612.5	608.4	597.2	578.8	558.3	537.3
15°	681.7	680.5	673.1	657.1	641.0	628.8	626.0	616.6	599.8	579.0	555.5
17.5°	682.5	682.0	675.0	661.5	647.5	639.2	637.4	631.2	618.0	598.2	573.3
20°	667.5	668.5	663.8	654.2	647.5	643.9	643.1	641.0	631.7	613.3	588.4
22.5°	651.4	653.2	648.8	643.6	643.1	646.7	647.2	647.7	641.8	623.9	601.1
25°	647.5	648.8	644.4	639.7	642.6	652.2	654.2	656.3	651.6	636.6	616.1
27.5°	667.2	666.2	657.6	647.5	649.3	662.3	665.1	667.5	665.1	652.2	634.8
30°	722.9	719.6	702.5	672.9	663.5	672.6	675.5	682.0	682.0	672.4	655.1
32.5°	816.3	809.8	778.4	720.4	687.9	682.5	685.3	696.0	701.4	693.9	675.0
35°	929.6	922.9	878.0	800.0	732.5	702.2	701.4	713.3	727.9	711.1	686.4
37.5°	1043.4	1036.4	982.5	894.9	797.6	743.7	739.1	743.2	749.4	718.6	702.2
40°	1157.3	1149.0	1101.8	1001.0	877.2	798.7	786.5	767.8	765.2	743.2	732.8
42.5°	1270.1	1262.6	1238.7	1120.0	972.7	852.4	833.7	801.6	811.4	798.2	789.1
45°	1383.9	1384.5	1359.1	1253.5	1087.8	951.4	926.3	876.0	899.3	894.3	899.5
47.5°	1484.8	1483.5	1474.4	1383.2	1230.7	1079.0	1046.5	988.3	1028.1	1046.3	1086.0
50°	1582.6	1581.8	1582.3	1530.2	1396.6	1230.7	1194.9	1133.7	1223.7	1286.7	1357.7
52.5°	1722.6	1727.0	1695.6	1681.9	1598.4	1409.9	1370.4	1307.2	1454.8	1554.0	1692.8
55°	1863.2	1859.5	1834.9	1849.1	1809.5	1622.0	1580.7	1530.5	1711.9	1820.6	2029.1
57.5°	1945.8	1947.2	1972.3	2042.0	2070.0	1886.4	1849.1	1810.3	2001.1	2078.1	2328.3
60°	2020.3	2026.2	2098.6	2230.3	2306.3	2211.4	2178.2	2140.3	2266.3	2296.9	2588.2
62.5°	2043.6	2062.0	2188.3	2385.4	2536.5	2578.1	2536.8	2453.4	2519.0	2507.0	2764.2
65°	1927.2	1952.4	2178.7	2443.4	2742.2	2926.0	2899.9	2744.8	2734.2	2662.4	2793.0
67.5°	1620.7	1645.8	1936.5	2321.6	2827.3	3227.3	3201.2	2957.5	2864.9	2676.8	2575.2
70°	1185.8	1201.6	1479.7	1954.7	2656.4	3328.5	3337.6	3061.2	2818.2	2479.5	2114.4
72.5°	683.3	718.3	913.0	1375.1	2170.2	3072.8	3135.8	2845.4	2523.1	2068.5	1478.3
75°	293.8	294.6	422.2	758.5	1469.7	2469.9	2530.8	2358.7	1981.4	1430.4	789.4
77.5°	139.8	142.4	185.7	338.7	809.0	1706.5	1870.9	1666.4	1267.2	687.2	298.2
80°	90.7	92.6	113.6	168.0	396.8	989.5	1104.1	961.3	559.1	245.6	128.6
82.5°	55.0	55.5	75.9	102.7	218.3	448.1	528.2	417.2	238.6	147.0	75.7
85°	33.5	33.7	46.2	63.5	132.5	154.8	158.9	157.7	140.0	96.2	40.5
87.5°	16.1	16.6	23.9	30.1	52.1	47.9	45.4	52.6	66.1	51.9	17.4
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: P652202
 CATALOG NUMBER: GALN-SA1B-840-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	486.4	486.4	486.4	486.4	486.4	486.4	486.4	486.4	486.4	486.4	486.4
2.5°	485.9	485.2	483.3	482.6	482.1	482.3	482.1	482.1	482.3	482.3	482.3
5°	488.3	487.0	484.2	484.2	485.7	489.3	492.7	495.3	498.1	497.9	497.9
7.5°	498.4	496.0	492.7	493.8	497.6	503.3	509.3	515.0	520.7	521.3	520.9
10°	513.2	510.8	507.2	508.5	514.7	523.3	530.8	539.1	545.3	547.2	546.6
12.5°	530.0	525.4	522.3	525.9	535.7	547.2	554.4	560.6	565.1	567.6	566.6
15°	547.2	542.7	539.1	546.6	558.6	569.2	572.8	573.8	574.7	577.3	576.7
17.5°	563.7	557.8	556.5	566.3	577.8	582.4	580.4	575.9	572.6	574.7	574.4
20°	578.5	573.8	573.3	583.1	587.6	583.1	574.4	566.6	560.6	561.1	560.9
22.5°	592.5	588.9	589.4	593.6	586.6	571.5	557.0	546.4	539.9	541.2	541.9
25°	608.0	604.4	605.8	599.0	575.9	549.8	528.7	519.7	517.0	519.7	521.5
27.5°	628.3	626.0	625.2	599.3	557.0	517.6	493.8	490.4	492.7	498.4	501.2
30°	650.1	650.1	646.0	594.8	531.1	478.9	458.2	458.7	466.8	474.8	477.7
32.5°	671.1	675.5	662.5	582.9	497.6	441.4	425.5	426.1	433.0	442.9	445.5
35°	688.4	701.1	676.8	561.1	458.2	409.7	397.8	390.8	391.1	398.5	400.7
37.5°	712.3	736.0	685.1	528.7	416.2	382.7	369.3	357.1	349.0	345.9	345.9
40°	753.8	788.5	687.2	480.8	376.5	357.1	337.9	323.4	307.8	293.8	291.2
42.5°	824.1	867.9	683.1	425.5	340.8	328.8	310.2	292.2	270.7	251.0	249.4
45°	948.6	971.1	671.9	368.2	308.8	301.6	283.4	264.0	241.2	223.5	222.2
47.5°	1148.0	1116.1	657.1	317.4	279.8	277.7	263.7	241.2	218.3	206.1	204.9
50°	1439.2	1344.3	655.1	280.6	256.4	257.5	246.1	225.3	205.4	195.3	193.7
52.5°	1789.7	1619.9	668.8	254.7	236.0	239.9	234.1	215.0	197.3	188.8	187.2
55°	2130.0	1867.8	677.1	234.4	216.8	224.0	224.8	208.7	192.7	184.1	183.1
57.5°	2406.1	2054.5	640.3	216.0	200.2	211.3	217.1	205.1	190.3	183.8	182.8
60°	2598.3	2142.7	535.5	199.7	188.0	201.3	214.2	205.4	196.0	196.8	197.3
62.5°	2659.5	2103.5	401.7	187.5	179.7	197.9	218.8	216.0	206.4	212.4	213.4
65°	2558.1	1941.7	291.2	177.9	172.4	200.2	232.9	223.8	202.8	207.2	207.2
67.5°	2218.6	1672.8	226.6	169.0	164.2	204.6	246.8	223.0	194.2	199.4	194.8
70°	1760.0	1294.0	188.8	159.2	155.3	198.1	248.2	215.0	184.1	185.2	176.4
72.5°	1167.9	850.8	162.3	149.9	141.9	178.1	237.5	204.6	174.3	168.3	159.5
75°	572.3	424.2	141.6	138.2	124.2	155.1	223.0	194.8	163.7	154.3	149.4
77.5°	221.7	180.5	120.9	123.5	108.2	136.7	203.9	180.7	149.6	136.9	133.0
80°	107.6	102.4	99.1	102.9	89.0	116.4	186.2	168.5	136.7	122.6	117.0
82.5°	66.9	63.2	75.9	80.1	68.5	106.3	176.6	158.2	120.3	101.7	97.0
85°	34.0	36.3	50.8	54.7	49.0	84.5	145.5	118.7	86.9	72.1	72.6
87.5°	13.0	17.4	26.7	28.8	26.2	44.6	80.1	69.2	55.8	37.8	35.0
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)