

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: P651705

Luminaire Tested: **GALN-SA1A-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3882.9 lumens
Efficiency: N/A
Efficacy: 117.7 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

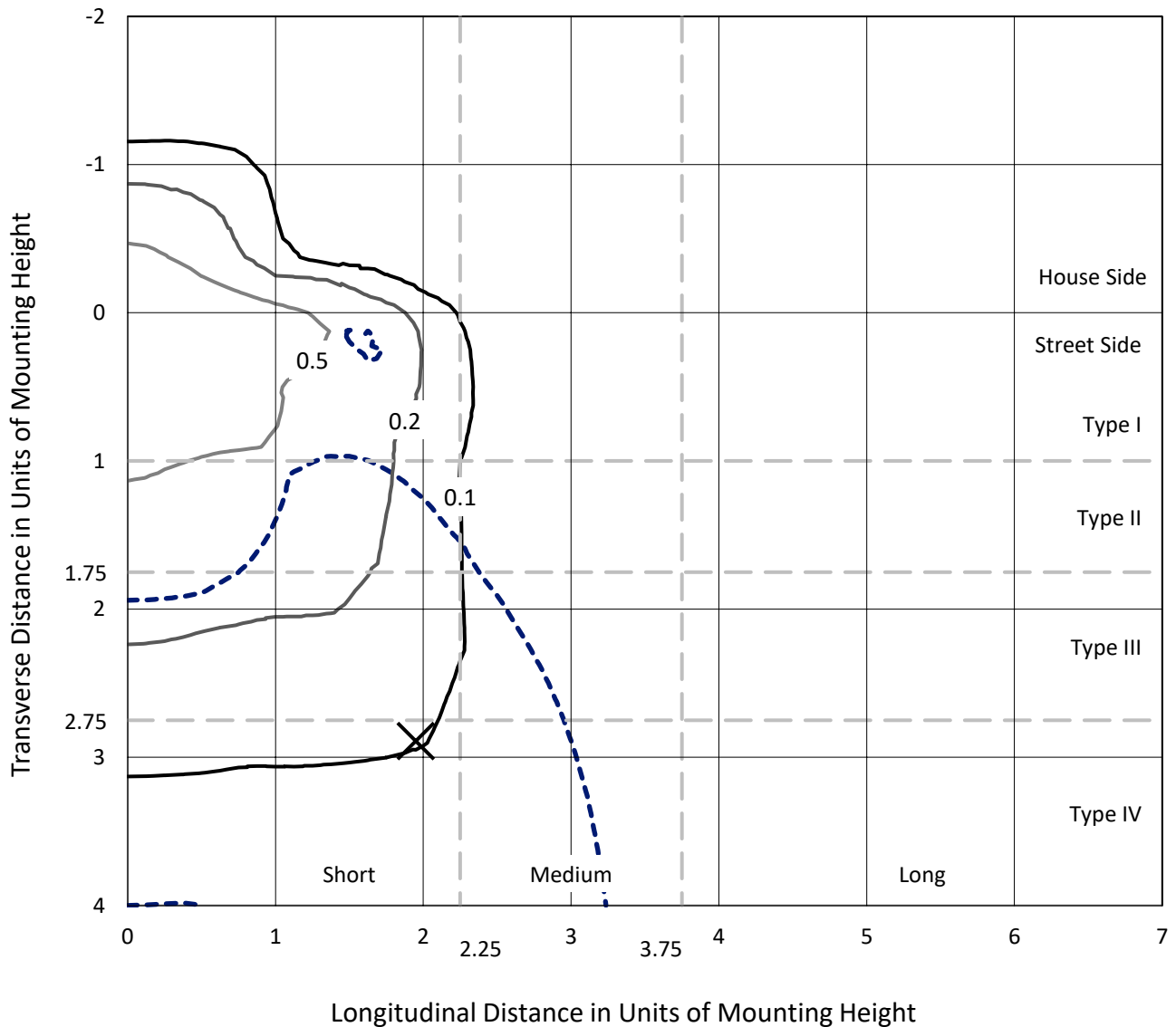
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651705
 CATALOG NUMBER: GALN-SA1A-840-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

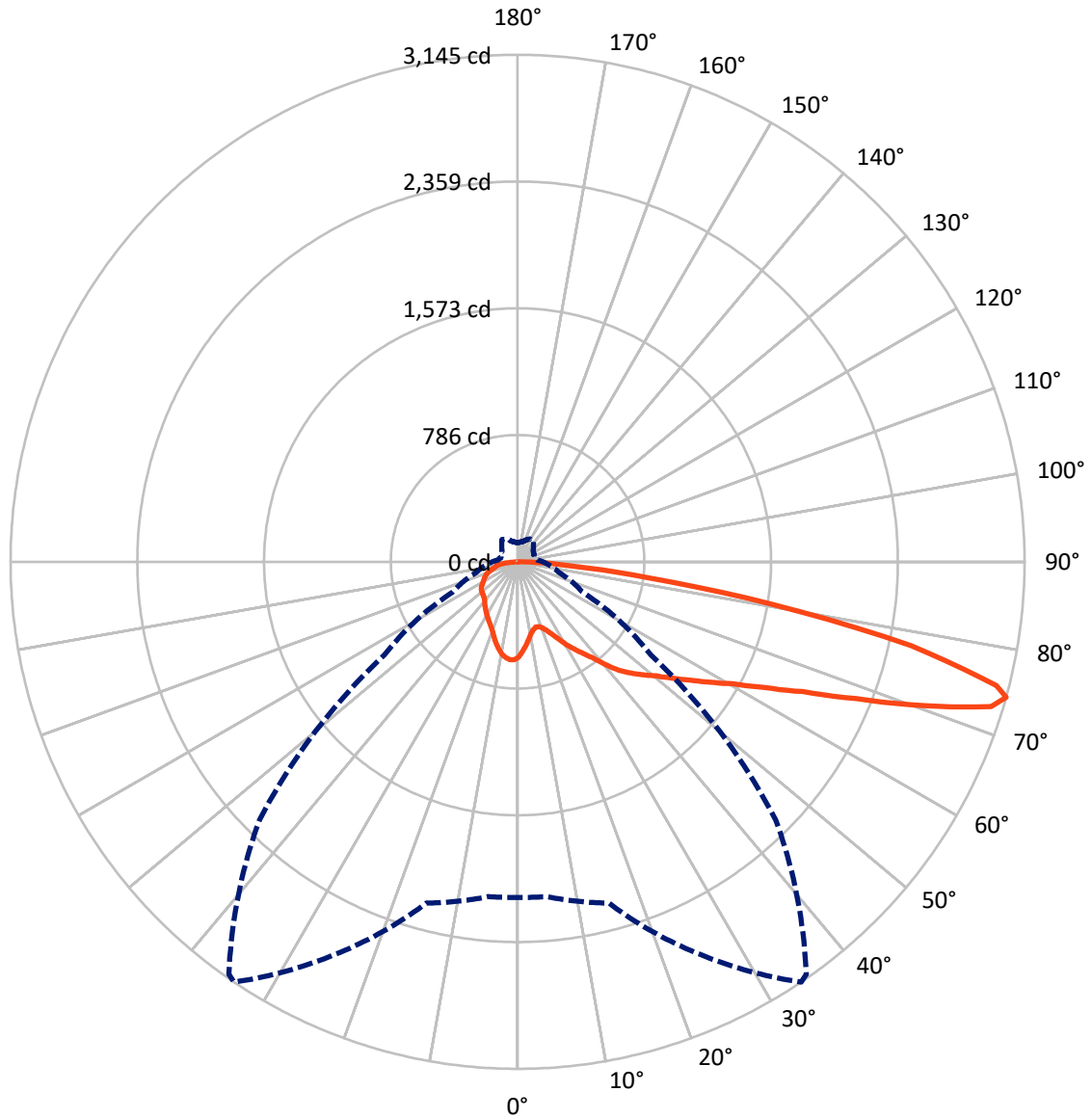
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P651705
CATALOG NUMBER: GALN-SA1A-840-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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 CATALOG NUMBER: GALN-SA1A-840-U-T4FT

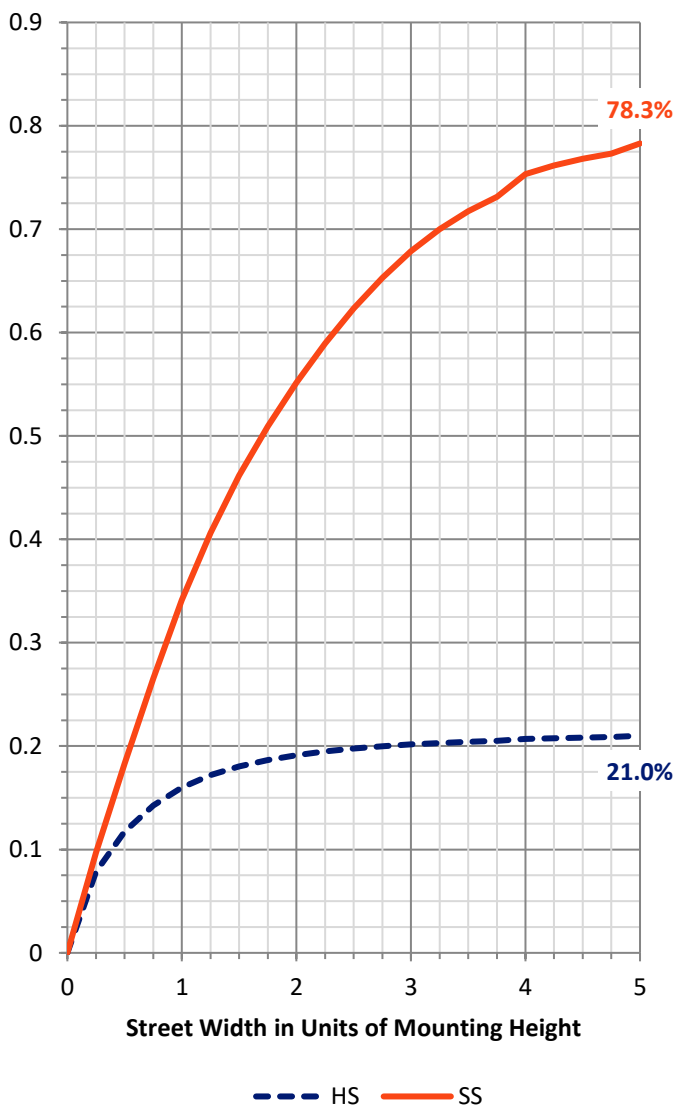
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	826.3	0.0	826.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	3056.6	0.0	3056.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	3882.9	0.0	3882.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.4
10°-20°	147.6	3.8
20°-30°	243.3	6.3
30°-40°	364.5	9.4
40°-50°	529.9	13.6
50°-60°	740.1	19.1
60°-70°	926.6	23.9
70°-80°	766.2	19.7
80°-90°	110.7	2.9
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°	3882.9	100.0
0°-180°	3882.9	100.0

Coefficient of Utilization

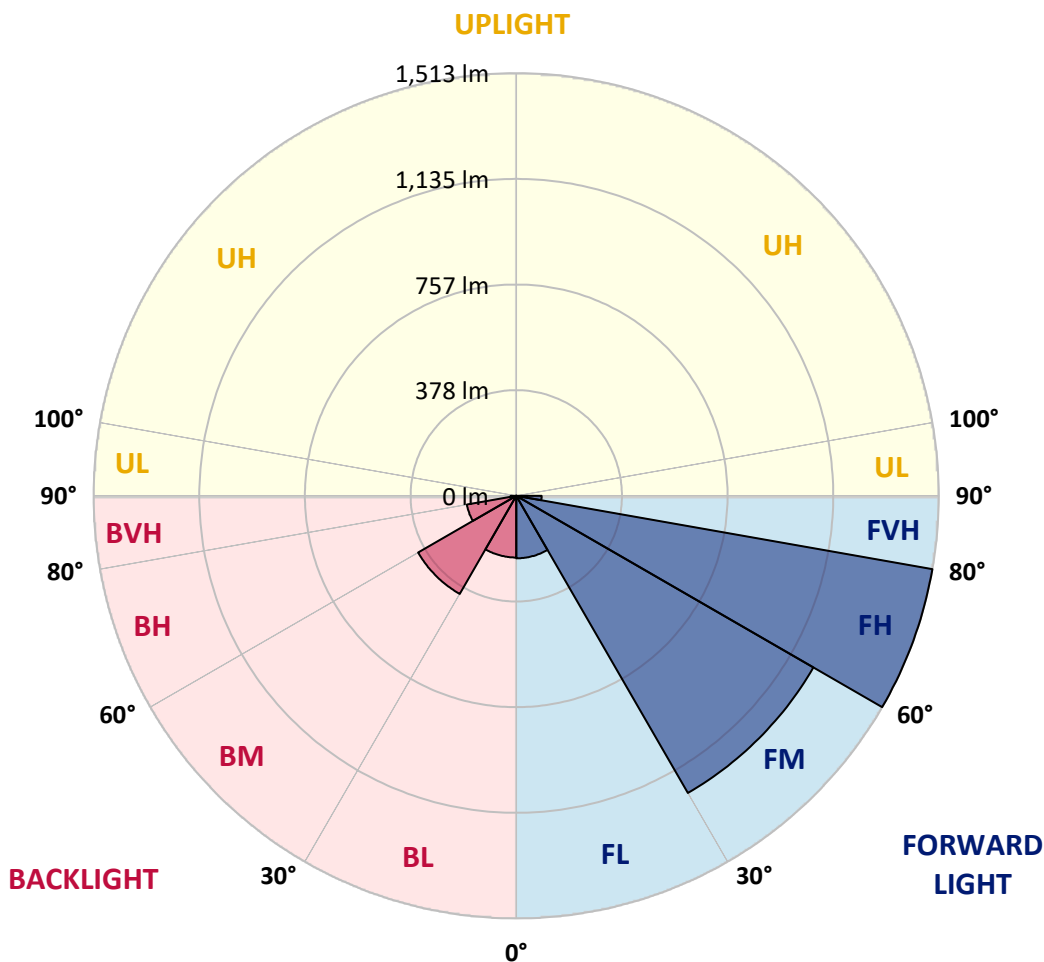


REPORT NUMBER: P651705
 CATALOG NUMBER: GALN-SA1A-840-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	223.8	5.8			
FM (30°-60°)	1228.7	31.6			
FH (60°-80°)	1513.3	39.0			G1/1800
FVH (80°-90°)	90.7	2.3			G1/100
BL (0°-30°)	221.0	5.7	B1/500		
BM (30°-60°)	405.8	10.5	B1/1000		
BH (60°-80°)	179.5	4.6	B1/500		G1/500
BVH (80°-90°)	20.0	0.5			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





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 CATALOG NUMBER: GALN-SA1A-840-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8
2.5°	547.9	550.7	552.2	557.6	558.8	560.6	565.1	571.1	578.9	585.8	591.7
5°	502.2	506.6	509.1	513.9	523.2	524.0	536.1	549.8	565.5	580.1	592.2
7.5°	459.0	463.8	465.9	474.5	486.8	488.7	506.4	528.1	554.3	576.5	595.0
10°	426.6	428.9	433.6	440.1	454.7	456.0	479.0	508.0	542.1	574.7	599.7
12.5°	408.9	410.2	411.2	418.1	432.6	434.5	458.6	491.6	532.4	576.1	607.5
15°	411.5	411.9	407.2	408.5	420.1	422.9	446.8	480.5	526.4	579.3	619.1
17.5°	433.2	431.7	420.1	414.1	422.3	423.5	444.4	476.3	523.6	585.3	631.2
20°	467.4	465.2	445.3	431.9	436.6	437.7	452.1	479.5	526.4	595.2	649.8
22.5°	510.0	509.1	478.9	462.7	462.5	462.5	470.0	491.1	534.8	608.8	669.4
25°	569.6	565.1	525.5	504.7	498.8	498.4	497.5	510.2	545.6	623.2	692.6
27.5°	630.7	622.9	587.7	555.6	543.1	541.6	536.1	537.3	559.3	639.5	719.1
30°	685.6	680.6	647.5	612.0	597.1	593.7	578.2	571.1	582.3	669.0	761.3
32.5°	727.5	724.5	698.7	666.4	644.5	643.8	621.2	615.4	618.2	704.7	809.5
35°	761.5	762.5	749.4	721.5	696.3	692.6	677.6	670.3	662.1	756.3	870.1
37.5°	807.9	810.3	809.5	785.3	754.6	755.5	752.0	740.0	718.2	814.0	937.5
40°	859.2	860.8	860.7	851.4	835.3	836.1	834.9	821.1	788.6	887.3	1012.3
42.5°	929.9	921.7	900.5	909.7	919.1	923.2	932.1	919.0	874.4	965.6	1082.6
45°	1009.1	993.6	945.4	949.7	984.8	992.5	1041.2	1023.1	967.6	1055.5	1165.5
47.5°	1059.0	1043.7	1003.1	1002.2	1048.6	1056.2	1142.2	1135.6	1052.3	1152.6	1266.5
50°	1103.5	1101.4	1055.5	1066.5	1111.9	1123.1	1252.3	1246.1	1136.9	1267.0	1376.7
52.5°	1169.6	1152.1	1115.6	1138.1	1198.2	1212.8	1361.7	1343.3	1214.5	1368.1	1483.6
55°	1199.3	1195.1	1193.0	1212.6	1295.0	1305.5	1467.9	1426.0	1280.8	1453.7	1564.9
57.5°	1278.6	1271.1	1292.4	1305.7	1408.9	1425.1	1578.9	1512.2	1338.9	1521.7	1604.5
60°	1381.4	1377.3	1396.9	1421.0	1536.3	1560.8	1705.4	1585.8	1385.5	1555.8	1582.8
62.5°	1535.0	1534.6	1531.0	1582.6	1716.8	1739.4	1850.6	1657.4	1392.9	1530.3	1470.5
65°	1755.3	1747.5	1715.7	1772.1	1941.4	1967.9	2001.8	1697.4	1348.7	1398.8	1238.2
67.5°	1985.7	1985.3	1959.4	2032.5	2263.8	2291.1	2190.9	1688.6	1226.3	1133.2	879.3
70°	2176.7	2167.4	2200.4	2395.3	2675.7	2707.3	2356.3	1584.7	976.8	748.4	522.5
72.5°	2222.5	2222.9	2291.3	2674.9	3071.3	3076.3	2415.9	1284.5	653.7	412.8	261.4
74°	2081.4	2085.1	2191.1	2688.8	3145.1	3122.7	2263.6	1009.5	442.0	269.5	188.5
75°	1899.8	1876.9	2030.2	2595.7	3068.6	3044.4	2085.3	810.1	337.3	215.3	165.0
77.5°	1015.8	1039.2	1275.8	1937.1	2492.9	2465.1	1413.9	388.5	182.2	150.0	118.7
80°	361.6	398.8	560.6	1013.6	1598.2	1606.9	674.8	178.1	128.2	110.6	83.9
82.5°	147.6	151.6	240.7	449.8	811.6	819.4	275.6	105.8	91.7	76.1	50.1
85°	57.6	59.4	106.5	202.2	346.3	368.9	95.3	55.9	56.3	43.6	25.6
87.5°	19.3	22.0	43.6	67.4	117.7	115.3	27.8	16.6	20.2	18.9	8.0
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: P651705
 CATALOG NUMBER: GALN-SA1A-840-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8
2.5°	594.8	598.9	601.7	604.7	607.5	608.3	607.7	609.6	609.8	610.1	610.2
5°	598.2	603.8	609.2	612.2	613.5	612.4	608.8	606.9	605.1	603.8	604.3
7.5°	602.9	610.9	615.9	617.1	613.7	608.8	599.7	592.7	588.1	585.1	584.9
10°	610.2	618.1	622.1	618.5	609.0	596.9	582.7	569.4	559.3	556.2	556.1
12.5°	619.5	628.3	628.1	617.4	600.8	579.3	556.2	540.8	527.1	520.2	522.9
15°	631.6	638.2	632.0	612.7	586.4	556.9	528.5	507.5	492.0	484.7	485.1
17.5°	645.6	651.4	634.8	604.3	566.2	528.3	495.4	475.4	463.1	457.8	457.3
20°	663.0	664.7	634.8	589.6	540.2	494.9	463.6	449.6	442.7	439.9	440.8
22.5°	681.7	678.3	631.3	568.9	505.9	460.1	439.0	432.8	429.3	428.9	429.3
25°	702.7	693.1	624.3	541.0	470.2	430.0	417.7	418.8	419.5	419.5	421.0
27.5°	728.6	709.2	612.4	505.7	428.5	402.0	398.6	406.1	409.6	410.2	411.2
30°	762.5	726.9	592.8	461.6	393.0	376.9	382.9	393.0	396.9	399.2	398.8
32.5°	803.0	746.2	566.4	417.6	364.4	359.2	366.5	376.9	381.1	382.5	380.7
35°	850.5	768.2	531.5	376.3	339.4	342.5	351.0	354.3	358.2	358.2	359.0
37.5°	901.7	785.8	489.0	338.3	320.1	331.0	337.3	334.3	332.5	330.4	331.5
40°	953.8	798.9	433.6	300.9	300.7	319.2	320.9	312.3	305.5	303.3	302.3
42.5°	999.2	807.1	383.7	271.9	282.4	307.6	308.9	295.1	284.2	277.7	275.6
45°	1052.8	816.5	334.9	247.8	265.4	298.4	301.6	283.1	266.9	253.4	249.9
47.5°	1126.1	838.1	296.5	229.1	253.2	292.6	297.0	273.2	251.9	234.2	231.4
50°	1208.9	867.6	266.5	216.4	243.7	287.4	293.0	263.1	237.9	218.3	216.2
52.5°	1284.9	883.5	240.7	205.0	234.5	278.0	287.6	255.7	224.1	202.4	200.5
55°	1326.3	857.7	215.3	193.9	221.8	265.7	280.1	245.7	210.8	194.0	191.2
57.5°	1332.0	804.3	192.3	181.7	208.4	250.6	266.1	233.4	202.2	188.2	185.9
60°	1288.7	724.7	174.4	171.9	194.9	233.6	250.4	222.6	193.3	181.7	179.4
62.5°	1181.2	638.2	162.0	162.8	181.2	215.7	238.8	212.4	185.0	174.7	172.5
65°	996.2	526.8	150.0	153.6	168.9	201.8	228.2	203.7	176.6	169.3	167.4
67.5°	692.0	380.3	140.0	143.9	157.3	187.5	216.0	194.4	167.1	163.2	160.3
70°	383.1	234.1	128.4	133.0	145.2	171.6	202.2	180.5	153.4	151.6	147.3
72.5°	201.3	149.1	115.3	120.3	128.8	151.2	181.2	165.2	139.9	132.5	126.9
74°	157.3	122.2	106.5	111.6	117.5	139.2	168.6	154.2	130.1	121.5	117.2
75°	137.0	108.8	99.0	105.6	110.8	131.0	158.9	146.5	124.8	116.6	112.7
77.5°	96.8	81.5	80.9	88.8	91.7	114.9	143.2	133.4	111.2	102.6	99.0
80°	68.0	61.1	64.1	69.0	72.9	101.5	133.0	115.3	91.2	81.1	79.8
82.5°	44.3	40.0	45.8	50.4	51.6	74.8	107.3	87.5	66.4	54.0	50.1
85°	20.4	20.0	26.2	25.6	25.4	36.6	63.7	51.2	38.3	28.6	26.9
87.5°	5.1	5.0	6.5	5.4	6.5	5.6	5.8	1.5	0.3	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)