

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: P652183

Luminaire Tested: **GALN-SA1B-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2856 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

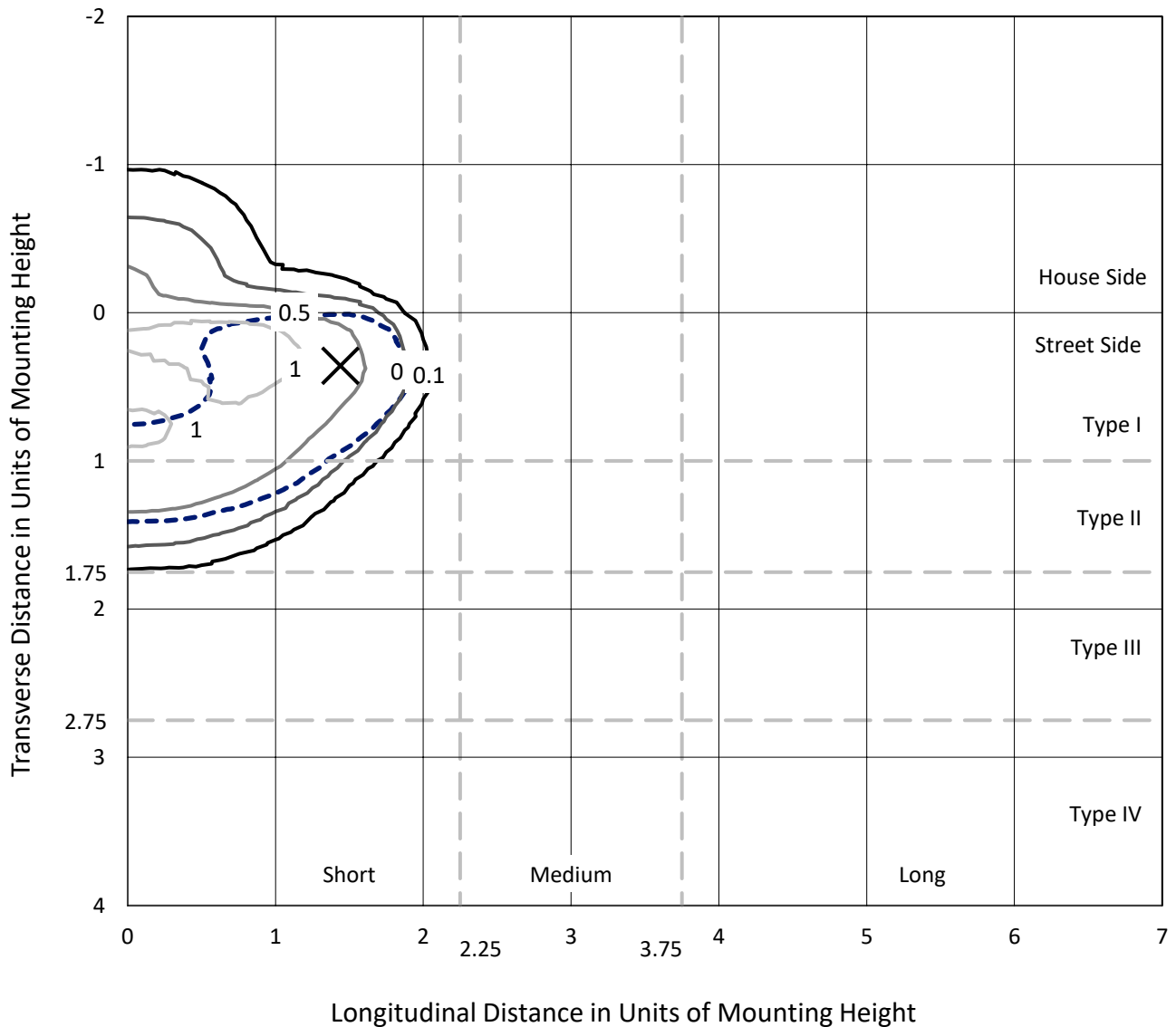
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652183
 CATALOG NUMBER: GALN-SA1B-840-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

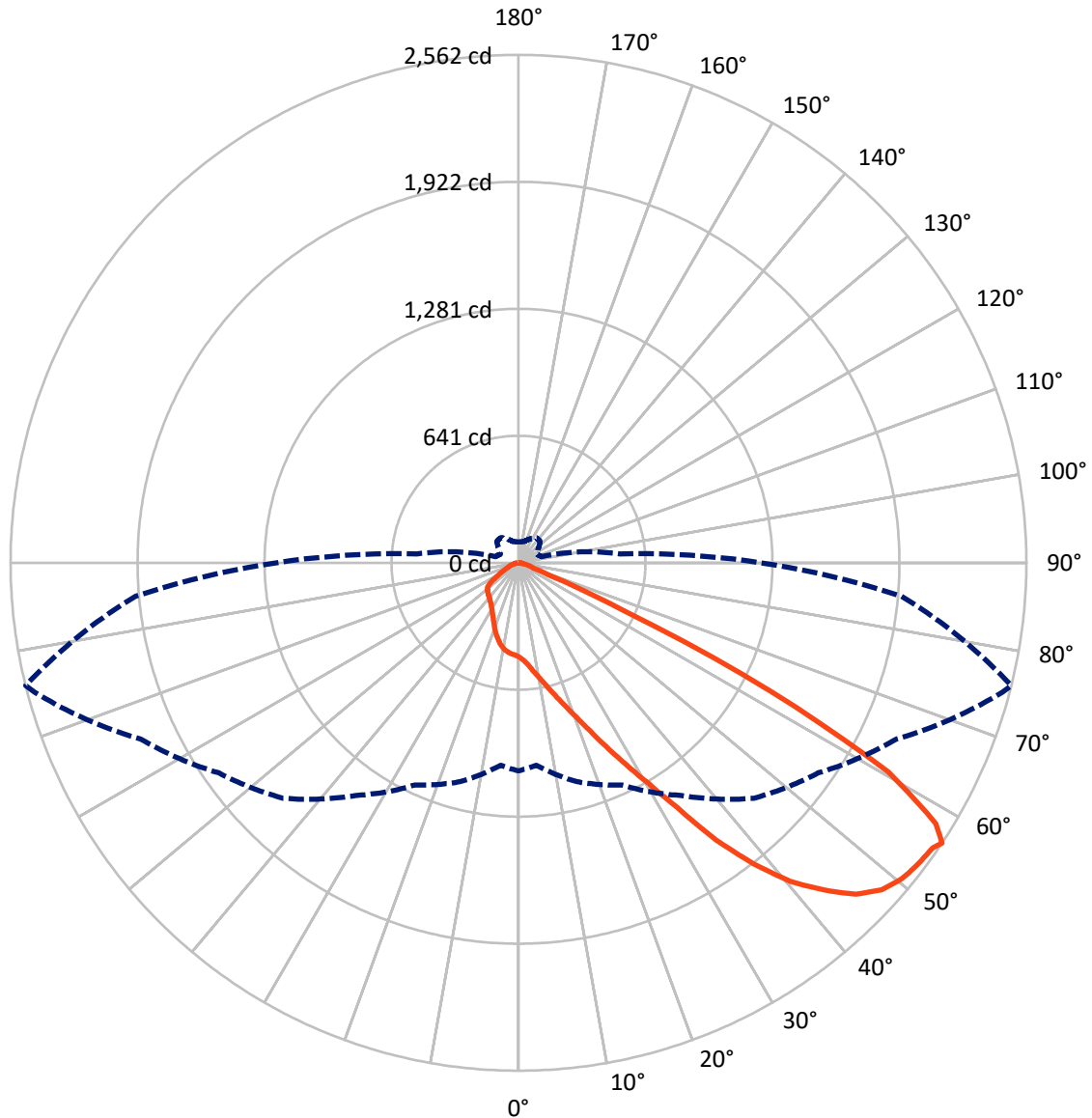
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

REPORT NUMBER: P652183
CATALOG NUMBER: GALN-SA1B-840-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P652183
 CATALOG NUMBER: GALN-SA1B-840-U-T2-GRSBK

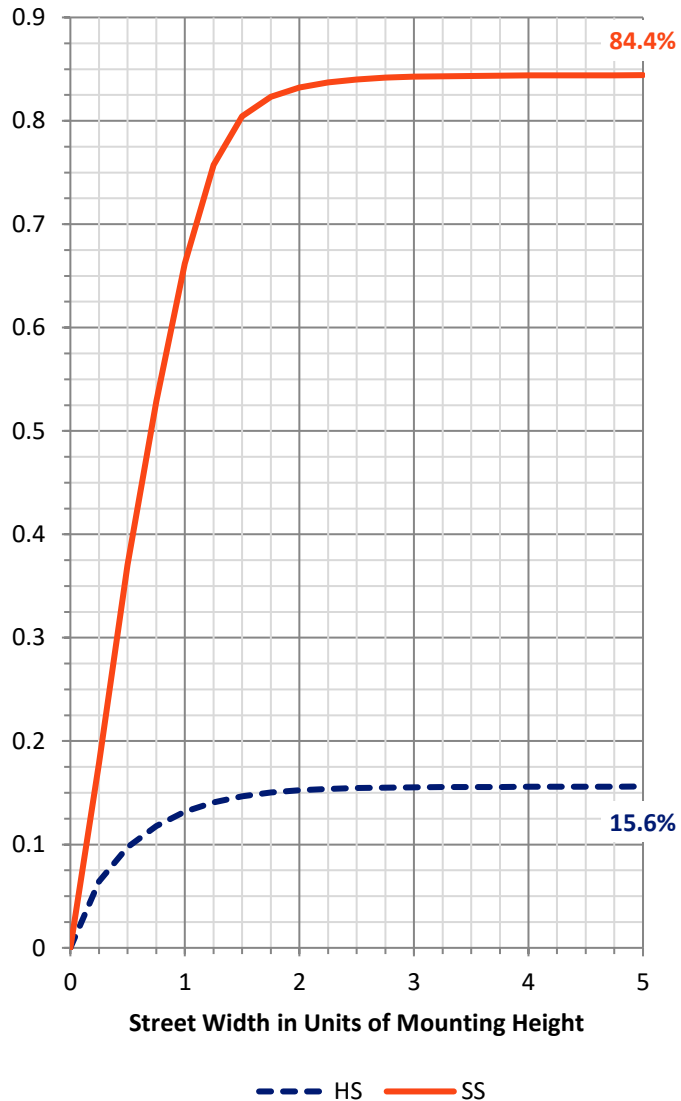
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	448.7	0.0	448.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	2407.4	0.0	2407.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	2856.0	0.0	2856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	1.7
10°-20°	153.8	5.4
20°-30°	279.0	9.8
30°-40°	481.1	16.8
40°-50°	781.6	27.4
50°-60°	823.8	28.8
60°-70°	251.7	8.8
70°-80°	32.3	1.1
80°-90°	4.9	0.2
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°	2856.0	100.0
0°-180°	2856.0	100.0

Coefficient of Utilization

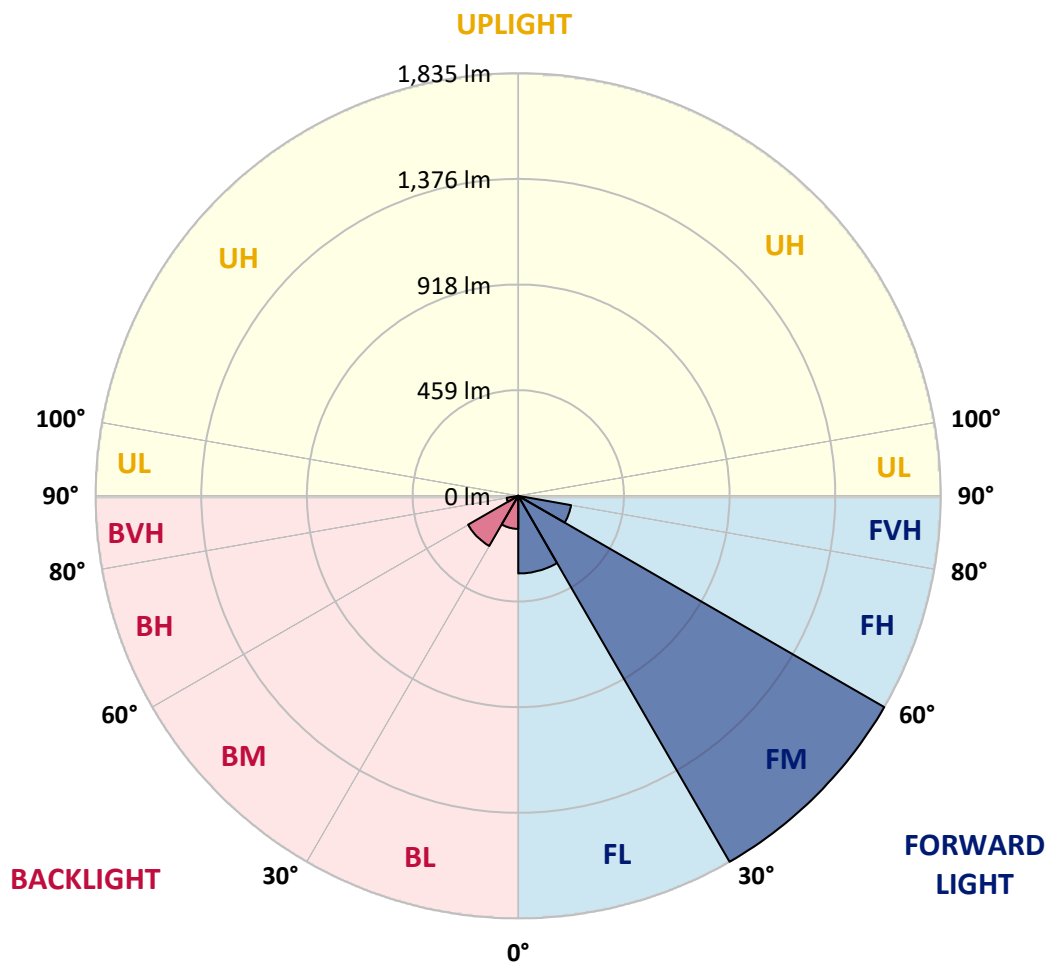


REPORT NUMBER: P652183
 CATALOG NUMBER: GALN-SA1B-840-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.2	11.8			
FM (30°-60°)	1835.0	64.2			
FH (60°-80°)	232.8	8.2			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	143.5	5.0	B1/500		
BM (30°-60°)	251.5	8.8	B1/1000		
BH (60°-80°)	51.2	1.8	B0/110		G0/110
BVH (80°-90°)	2.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





REPORT NUMBER: P652183

CATALOG NUMBER: GALN-SA1B-840-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4
2.5°	547.5	534.9	535.4	534.4	532.8	527.0	509.6	507.0	495.4	492.2	481.7
5°	613.3	602.2	608.5	599.1	590.1	584.9	556.5	543.3	524.9	518.1	503.3
7.5°	654.4	649.1	647.0	647.6	639.2	626.0	613.3	584.3	559.6	554.4	523.3
10°	674.4	671.2	674.4	672.8	676.5	678.1	656.0	638.6	602.2	593.3	544.9
12.5°	679.1	685.4	688.1	694.9	703.8	719.1	717.5	693.9	645.5	639.7	578.0
15°	690.7	696.0	693.3	704.4	721.2	747.1	760.8	757.1	704.9	694.4	616.5
17.5°	701.2	691.8	700.7	722.8	739.7	779.2	812.3	827.6	769.7	757.6	651.8
20°	715.4	712.8	711.2	722.3	752.3	804.9	870.8	898.7	842.3	829.7	702.3
22.5°	758.7	759.2	758.1	741.8	763.4	822.8	921.8	990.8	929.2	918.7	759.7
25°	815.5	808.6	803.4	790.2	787.6	839.1	973.5	1103.5	1033.4	1026.1	821.8
27.5°	875.5	875.5	859.7	847.6	830.7	879.7	1020.8	1213.0	1159.2	1149.2	876.0
30°	940.7	944.4	942.3	916.5	906.0	923.9	1069.2	1353.0	1303.6	1290.9	965.6
32.5°	1037.1	1029.2	1038.2	1016.6	985.6	1001.3	1145.6	1478.3	1490.9	1473.0	1083.0
35°	1164.5	1159.8	1154.0	1118.7	1081.9	1094.5	1253.5	1632.5	1726.2	1717.3	1201.4
37.5°	1278.7	1276.1	1271.4	1247.2	1204.6	1219.8	1376.1	1793.1	1955.8	1926.3	1368.8
40°	1398.8	1413.0	1397.7	1376.1	1337.2	1370.9	1520.4	1888.4	2149.0	2113.2	1496.7
42.5°	1561.5	1550.4	1557.3	1517.8	1496.7	1533.6	1665.2	1983.7	2299.0	2256.4	1632.5
45°	1734.6	1735.2	1716.8	1704.1	1649.4	1689.4	1754.2	2036.3	2418.5	2385.4	1735.2
47.5°	1845.7	1845.2	1865.3	1885.3	1828.9	1789.4	1814.7	2086.4	2480.1	2464.9	1772.6
50°	1828.4	1833.6	1859.5	1934.2	1963.7	1910.5	1871.6	2071.6	2508.0	2506.4	1804.7
52.5°	1590.4	1607.8	1651.0	1758.9	1907.4	1973.2	1931.0	2099.0	2521.7	2524.3	1852.6
55°	1210.9	1220.3	1302.5	1433.6	1597.8	1823.1	1907.4	2120.6	2532.3	2537.0	1910.5
56°	1050.3	1025.0	1143.5	1236.7	1433.0	1679.4	1847.3	2103.8	2525.9	2562.3	1939.4
57.5°	792.8	776.0	871.8	988.2	1177.1	1437.3	1661.0	2024.2	2483.3	2482.8	1897.9
60°	482.2	465.4	539.1	607.5	713.3	885.0	1122.4	1612.0	2099.5	2143.7	1536.8
62.5°	286.9	297.5	370.1	411.7	445.9	463.8	580.7	958.2	1400.9	1432.5	953.4
65°	191.1	194.8	249.5	318.0	333.3	265.3	236.4	388.0	607.5	588.0	393.3
67.5°	117.9	126.3	167.4	239.0	264.8	193.8	112.1	144.7	167.4	167.4	113.7
70°	71.6	75.8	111.6	162.6	181.7	124.8	81.6	81.6	80.6	79.0	68.0
72.5°	34.2	36.8	56.9	83.7	85.3	65.8	63.2	69.0	67.4	66.9	56.3
75°	14.7	15.8	20.0	26.3	30.0	27.9	38.4	49.5	51.0	49.5	40.5
77.5°	4.7	5.3	7.4	9.5	10.0	12.1	16.3	20.5	23.7	22.1	20.0
80°	0.5	1.1	2.1	4.7	7.4	9.5	12.1	13.7	15.3	15.3	14.2
82.5°	0.5	0.5	2.1	4.2	6.8	8.9	11.6	13.1	15.3	15.8	14.7
85°	0.0	0.5	1.6	3.7	5.8	5.8	5.3	5.3	3.7	3.7	3.7
87.5°	0.0	0.0	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1
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: P652183

CATALOG NUMBER: GALN-SA1B-840-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4
2.5°	479.6	478.5	464.3	455.4	450.6	441.2	435.4	431.2	428.0	424.3	424.9
5°	485.9	482.2	458.5	442.2	422.8	412.3	403.3	395.9	391.1	390.1	388.0
7.5°	503.8	484.3	448.5	419.1	394.3	383.7	375.9	371.1	373.2	368.5	372.2
10°	517.5	488.5	436.4	393.8	369.0	361.1	356.9	360.6	365.9	363.8	361.1
12.5°	534.4	492.7	417.0	369.5	346.4	340.6	348.0	354.8	365.3	369.5	364.3
15°	553.3	497.5	392.2	341.7	326.9	331.7	344.3	356.4	366.9	372.2	375.3
17.5°	576.5	495.9	368.0	319.6	308.5	322.2	337.5	348.5	364.3	372.2	370.1
20°	598.0	490.6	341.1	297.5	298.0	310.6	323.3	341.1	349.6	360.1	356.4
22.5°	618.6	481.2	313.3	282.2	282.2	301.7	308.0	319.6	326.9	332.2	331.7
25°	647.6	463.3	290.1	267.4	273.7	286.4	291.7	295.4	292.2	296.4	297.0
27.5°	668.1	444.9	271.1	254.3	265.8	275.3	273.7	271.6	264.2	258.5	262.1
30°	690.2	423.3	254.8	245.3	251.6	260.0	253.7	247.4	235.8	226.4	226.9
32.5°	721.7	413.3	240.6	234.8	243.2	244.3	237.4	228.0	216.4	207.4	206.9
35°	780.7	407.0	228.5	228.0	229.5	230.1	223.2	211.6	206.9	199.6	202.2
37.5°	839.7	403.8	220.1	218.0	217.4	218.0	210.1	199.0	208.0	207.4	208.5
40°	915.0	418.0	208.0	205.3	205.9	205.9	195.9	192.7	208.5	210.1	210.6
42.5°	991.3	435.9	200.1	191.7	193.8	193.8	188.5	184.8	195.9	185.3	183.8
45°	1057.6	462.2	191.7	178.0	183.2	185.9	184.3	178.0	171.1	153.2	153.2
47.5°	1079.3	485.4	181.7	164.8	169.0	180.6	175.9	162.6	150.5	135.8	134.8
50°	1117.2	510.7	173.8	149.5	158.4	172.7	167.9	154.7	141.1	130.5	131.1
52.5°	1156.1	539.6	158.9	131.6	142.6	166.3	166.3	151.6	130.5	123.2	122.1
55°	1214.6	538.6	132.6	107.9	127.4	156.8	159.5	135.8	116.9	111.1	111.1
56°	1223.0	514.4	119.5	101.1	120.6	154.2	154.7	131.6	111.6	105.3	105.3
57.5°	1159.8	464.3	104.8	92.7	112.1	149.5	150.0	127.9	107.4	98.5	97.4
60°	892.4	314.3	87.4	82.7	101.6	134.8	137.4	116.3	94.3	87.4	86.9
62.5°	503.8	174.3	76.9	74.8	87.4	114.8	122.7	101.6	80.1	76.4	77.4
65°	230.1	95.8	64.8	60.6	70.6	88.5	99.0	83.7	65.8	61.6	61.6
67.5°	84.3	65.3	55.3	47.9	49.5	57.4	64.3	54.2	43.7	37.3	38.9
70°	60.0	54.7	48.4	41.6	38.4	37.3	36.8	30.5	21.6	16.8	17.9
72.5°	48.4	45.2	40.5	35.2	30.0	25.2	21.6	15.8	10.0	6.8	6.3
75°	34.7	33.1	29.5	25.2	21.0	17.9	14.7	10.0	5.3	2.6	2.6
77.5°	17.9	17.9	17.4	15.8	13.1	10.5	8.4	5.8	3.2	1.1	1.1
80°	13.7	14.7	15.3	13.7	12.1	9.5	6.8	4.2	2.1	0.5	0.5
82.5°	13.1	15.3	16.3	14.2	12.1	8.9	6.8	4.2	2.1	0.5	0.5
85°	3.2	3.2	4.7	5.3	6.8	7.4	5.8	3.7	1.6	0.5	0.5
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	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)