

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: P647739

Luminaire Tested: **GALN-SA1A-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2203.4 lumens
Efficiency: N/A
Efficacy: 66.8 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

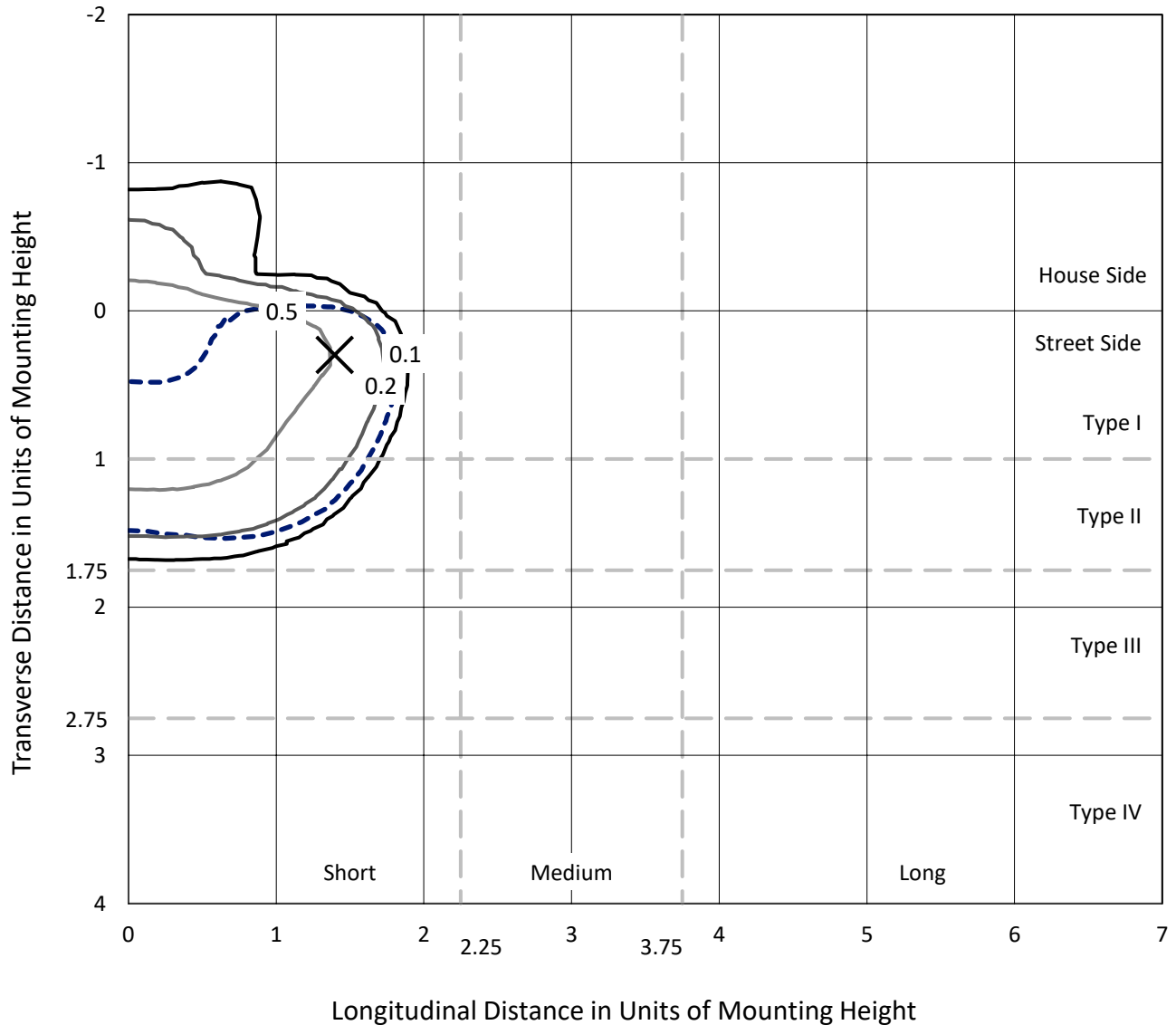
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

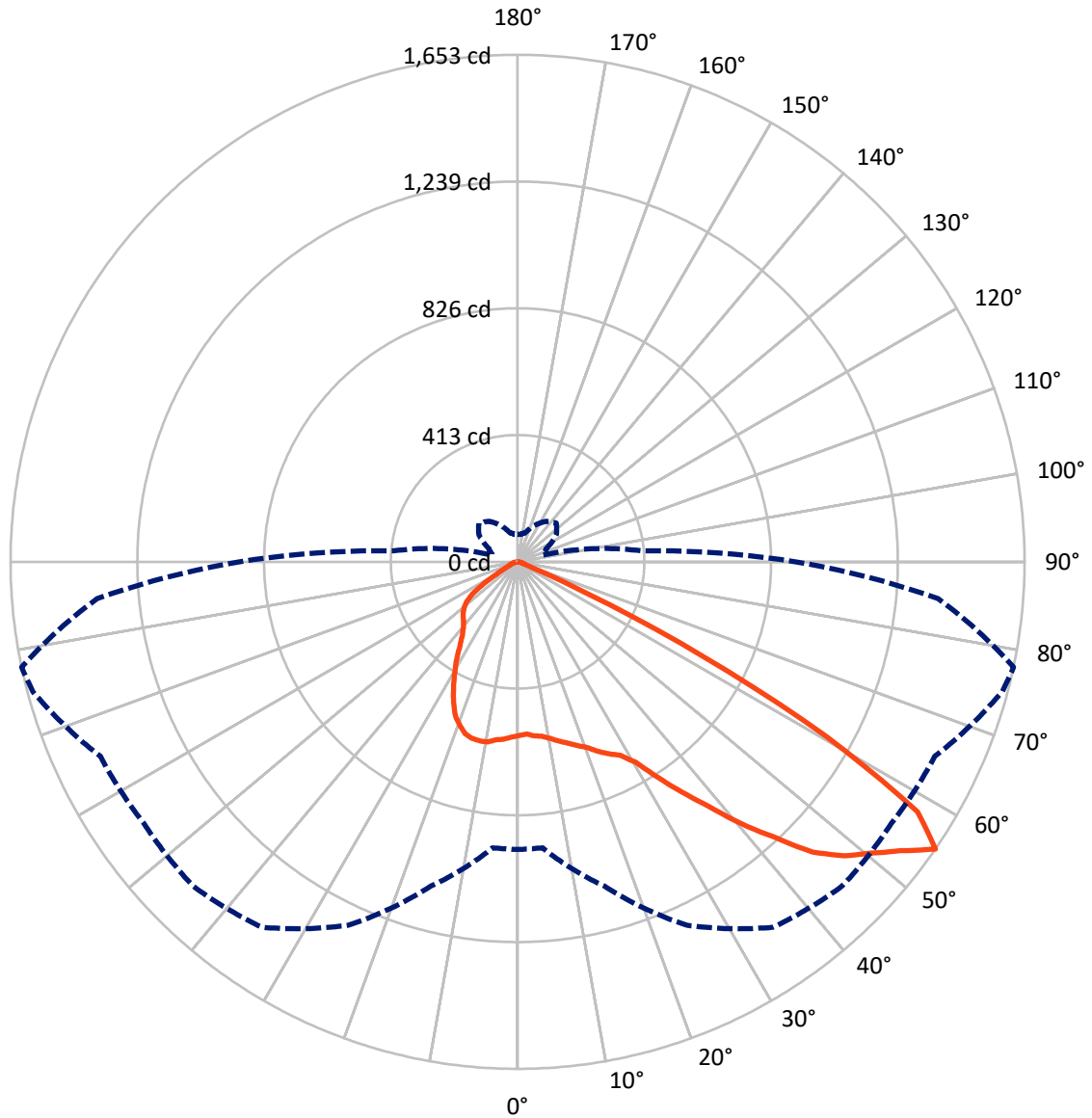
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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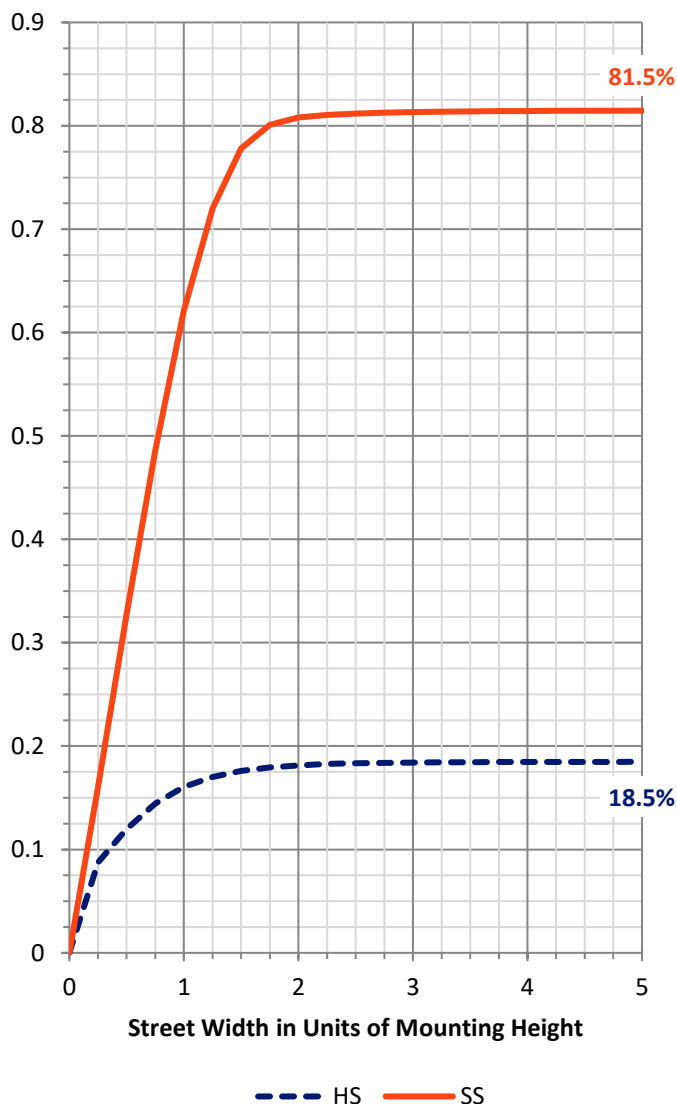
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	409.2	0.0	409.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	1794.1	0.0	1794.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	2203.4	0.0	2203.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	2.3
10°-20°	133.7	6.1
20°-30°	234.3	10.6
30°-40°	386.4	17.5
40°-50°	562.2	25.5
50°-60°	637.0	28.9
60°-70°	182.1	8.3
70°-80°	14.1	0.6
80°-90°	2.9	0.1
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°	2203.4	100.0
0°-180°	2203.4	100.0

Coefficient of Utilization

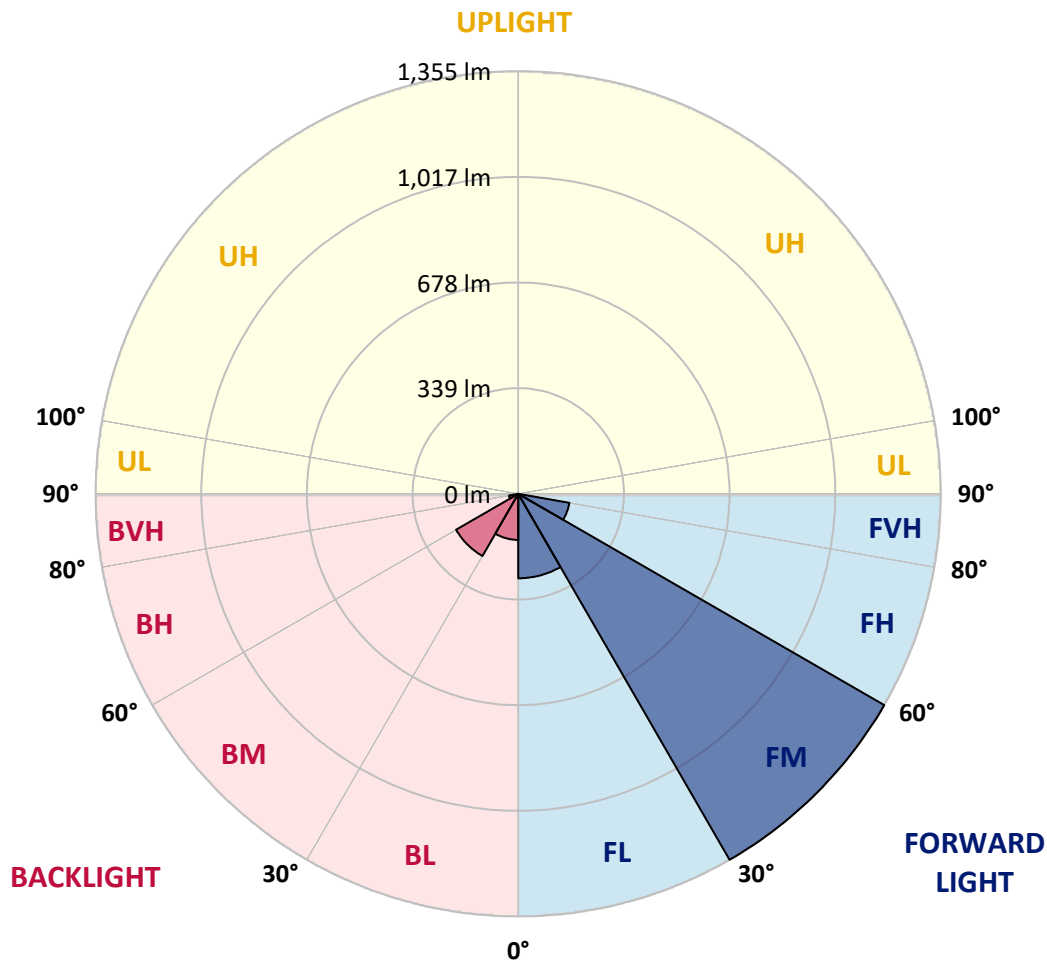


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.9	12.3			
FM (30°-60°)	1355.4	61.5			
FH (60°-80°)	166.4	7.6			G0/660
FVH (80°-90°)	1.4	0.1			G0/10
BL (0°-30°)	147.7	6.7	B1/500		
BM (30°-60°)	230.2	10.4	B1/1000		
BH (60°-80°)	29.9	1.4	B0/110		G0/110
BVH (80°-90°)	1.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5
2.5°	532.6	537.8	538.5	544.8	544.4	555.1	558.2	558.6	565.7	562.1	571.2
5°	517.6	514.9	513.7	524.8	527.9	537.4	545.2	550.0	564.5	569.6	579.1
7.5°	504.3	504.3	505.0	514.9	513.7	525.9	534.2	548.7	570.0	574.3	585.8
10°	491.3	486.5	492.4	502.7	511.3	516.9	534.2	547.9	572.8	585.4	601.2
12.5°	484.5	486.9	487.7	495.2	504.6	521.2	530.6	553.5	592.5	599.9	616.9
15°	526.7	521.9	510.5	503.9	511.7	519.6	543.2	566.5	602.8	613.4	632.3
17.5°	575.6	571.6	562.1	544.0	526.3	540.9	559.4	580.7	613.8	629.5	657.5
20°	639.4	633.1	623.6	588.2	572.8	557.0	576.8	602.0	631.9	646.1	674.8
22.5°	715.4	715.4	694.1	651.2	619.3	604.3	612.5	627.2	652.0	671.3	699.6
25°	794.6	792.2	772.9	728.4	674.4	656.7	666.2	676.4	683.1	693.7	712.6
27.5°	885.2	871.4	847.0	797.7	750.0	715.8	726.0	717.0	708.7	714.2	741.4
30°	946.6	955.3	924.2	876.9	832.0	793.8	795.8	787.9	750.0	757.9	774.1
32.5°	1010.5	1015.9	998.6	972.6	927.7	883.2	867.1	860.4	832.0	835.5	819.8
35°	1063.6	1074.3	1058.9	1047.5	1034.5	998.6	954.1	975.8	930.1	921.4	880.5
37.5°	1112.5	1109.4	1127.4	1115.6	1112.9	1087.7	1038.8	1043.2	1012.4	1010.5	963.2
40°	1156.2	1157.0	1181.8	1187.3	1176.3	1131.4	1060.5	1094.8	1119.6	1122.0	1061.3
42.5°	1192.4	1203.1	1224.4	1268.9	1252.3	1177.5	1083.0	1120.4	1212.6	1227.1	1154.2
45°	1224.0	1245.7	1272.1	1311.8	1302.4	1242.9	1138.9	1173.2	1311.8	1350.0	1241.7
47.5°	1225.9	1254.3	1283.0	1342.1	1354.0	1277.9	1196.8	1256.6	1390.6	1432.0	1305.5
50°	1218.0	1233.1	1290.5	1354.7	1381.5	1335.1	1277.9	1326.8	1467.0	1493.0	1337.8
52.5°	1124.7	1136.1	1251.5	1366.6	1431.2	1399.7	1385.5	1424.5	1545.0	1564.4	1368.1
55°	937.6	935.6	1094.4	1307.1	1454.0	1495.4	1486.8	1500.5	1635.2	1652.6	1375.7
57.5°	641.4	677.2	814.2	1088.4	1314.2	1473.0	1482.0	1459.1	1530.1	1536.8	1199.2
60°	345.9	360.9	471.1	726.4	1000.6	1200.3	1224.0	1182.6	1177.1	1158.2	856.1
62.5°	137.5	144.9	207.6	359.6	545.2	729.6	780.4	763.4	727.3	677.6	443.2
65°	65.4	70.2	103.2	168.2	241.9	304.1	354.9	370.7	273.4	246.2	146.2
67.5°	44.6	48.1	75.2	96.2	86.3	90.2	117.4	109.2	64.2	54.7	40.6
70°	33.9	36.3	60.3	65.4	38.6	27.2	30.3	28.3	26.4	26.8	26.4
72.5°	24.0	26.0	44.1	38.6	16.9	12.6	16.1	19.3	19.3	19.3	18.9
75°	14.6	16.5	25.6	15.0	6.7	6.7	10.3	13.0	13.8	14.2	13.4
77.5°	7.5	9.5	8.7	4.3	4.3	5.1	7.5	9.1	9.9	9.9	9.5
80°	1.6	1.6	1.6	2.3	4.3	5.5	7.5	8.3	9.5	9.5	8.7
82.5°	0.0	0.4	1.2	2.3	3.9	5.1	7.1	8.3	9.5	9.9	9.1
85°	0.0	0.4	0.8	1.6	2.7	3.1	2.7	2.3	2.3	2.3	2.3
87.5°	0.0	0.0	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5
2.5°	572.0	573.2	571.2	570.8	569.2	573.9	562.5	559.8	566.9	560.2	561.7
5°	579.5	582.2	578.7	572.8	564.2	550.8	539.3	524.3	517.2	512.2	511.3
7.5°	585.0	586.9	583.4	564.5	538.5	504.6	479.4	460.9	446.3	442.0	434.9
10°	607.5	607.8	590.1	548.3	497.5	453.0	414.4	386.1	371.5	362.5	358.5
12.5°	622.4	621.6	585.8	516.5	448.7	389.6	345.5	311.2	297.9	293.5	290.7
15°	641.4	637.0	575.6	483.7	385.7	321.8	282.0	258.4	257.2	254.5	257.2
17.5°	656.3	644.1	560.5	424.3	325.4	265.1	239.1	240.7	243.8	246.6	247.0
20°	680.7	655.5	526.3	372.2	269.4	227.3	226.9	234.0	241.9	245.0	248.2
22.5°	699.2	660.2	489.7	316.7	223.8	212.0	218.6	229.3	235.2	238.3	243.0
25°	706.0	647.2	440.8	261.2	201.7	204.8	215.1	222.2	229.7	233.2	231.2
27.5°	712.6	640.6	382.5	215.1	189.9	200.1	208.8	215.9	218.2	223.0	226.1
30°	728.8	617.3	330.1	186.0	184.0	197.0	203.3	205.6	212.0	214.7	214.7
32.5°	741.8	608.2	274.6	172.2	183.1	198.6	199.4	199.4	200.1	198.2	197.4
35°	768.6	577.1	225.0	163.9	182.8	199.0	200.9	194.2	176.1	169.0	167.0
37.5°	801.6	557.0	188.3	161.9	185.6	203.7	206.8	181.6	157.9	146.6	144.5
40°	841.9	542.9	164.3	161.1	191.8	214.7	205.2	171.8	141.0	124.5	123.7
42.5°	888.7	529.9	148.1	160.7	199.7	226.1	203.7	163.5	123.7	112.7	114.2
45°	926.1	522.7	137.1	157.9	202.5	232.8	204.8	148.9	116.6	109.5	110.3
47.5°	955.3	507.8	128.0	153.2	202.1	235.2	194.2	143.0	113.1	115.0	117.0
50°	956.1	487.7	116.6	143.0	196.2	230.8	182.0	137.5	112.3	120.6	124.5
52.5°	945.5	459.3	104.4	128.4	182.4	215.9	171.0	135.1	108.8	108.0	112.7
55°	907.7	406.1	83.9	104.0	154.0	178.1	161.1	130.8	98.1	89.0	89.8
57.5°	733.5	291.1	61.9	74.5	109.2	130.4	145.3	128.8	88.2	75.6	76.0
60°	454.2	165.1	45.3	50.8	67.3	79.2	117.8	119.7	78.8	63.8	63.0
62.5°	233.2	81.5	35.1	35.9	41.3	46.5	80.7	100.5	71.3	60.7	60.7
65°	78.0	40.2	30.7	27.6	27.6	28.7	48.9	69.8	60.3	50.8	50.8
67.5°	33.5	29.9	26.8	24.0	22.1	20.9	27.6	40.6	44.9	38.6	37.0
70°	26.0	25.2	23.3	20.1	17.3	15.7	16.1	20.9	25.6	24.8	24.0
72.5°	19.3	19.3	18.5	15.7	13.4	11.4	10.6	11.0	12.2	12.6	13.0
75°	13.4	13.8	13.8	12.2	9.9	8.3	7.1	5.9	4.7	3.9	3.5
77.5°	9.1	9.5	10.3	9.1	7.5	5.5	4.3	3.1	2.0	0.8	0.8
80°	7.9	9.1	9.9	9.1	7.9	5.9	4.3	2.3	1.2	0.0	0.0
82.5°	8.3	9.1	10.3	8.7	7.5	5.5	4.3	2.7	1.2	0.4	0.0
85°	2.0	2.0	2.3	2.7	3.5	3.9	3.1	2.0	1.2	0.4	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	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)