

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: P526218

Luminaire Tested: **GALN-SA1A-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2969 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

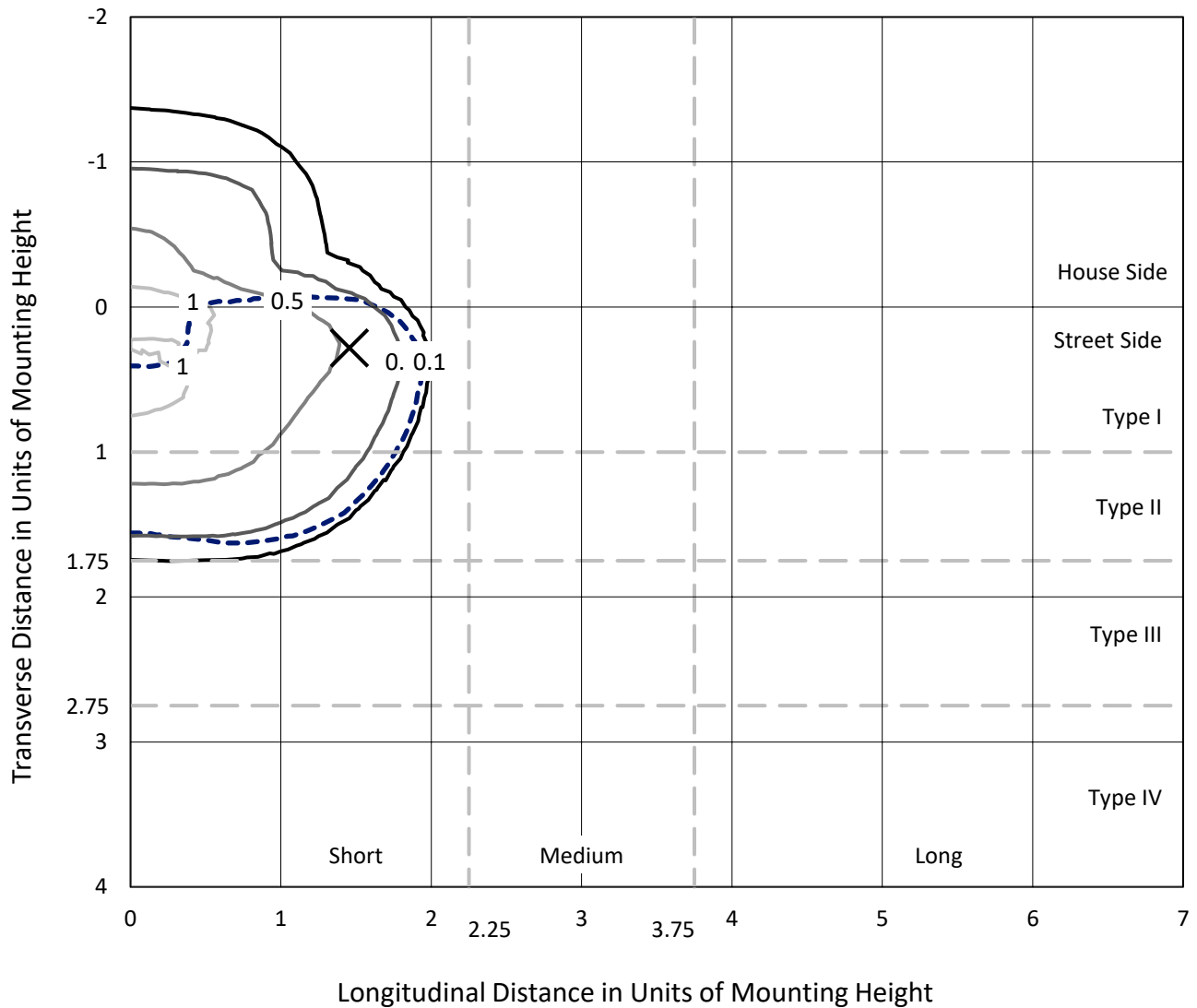
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

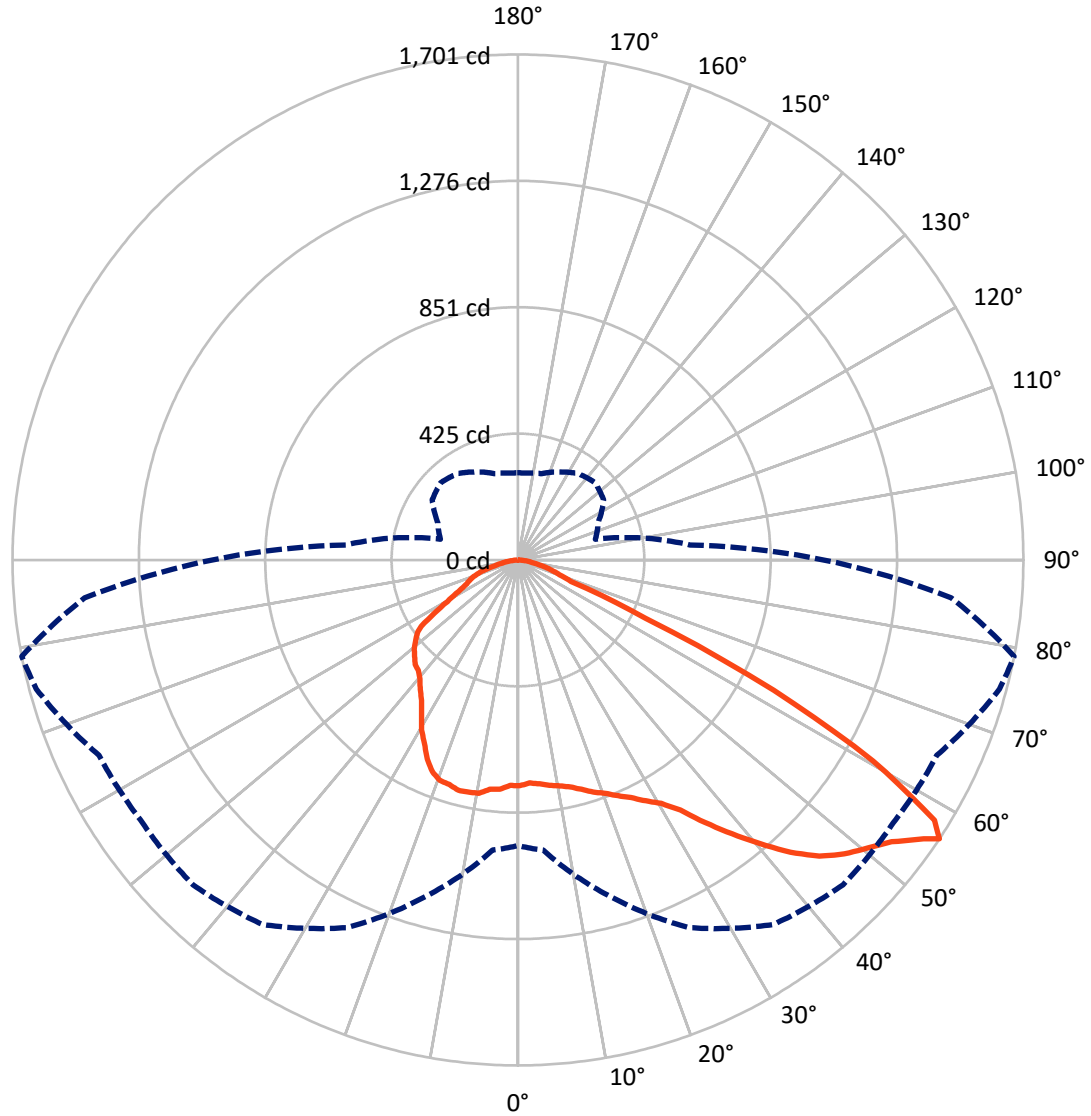
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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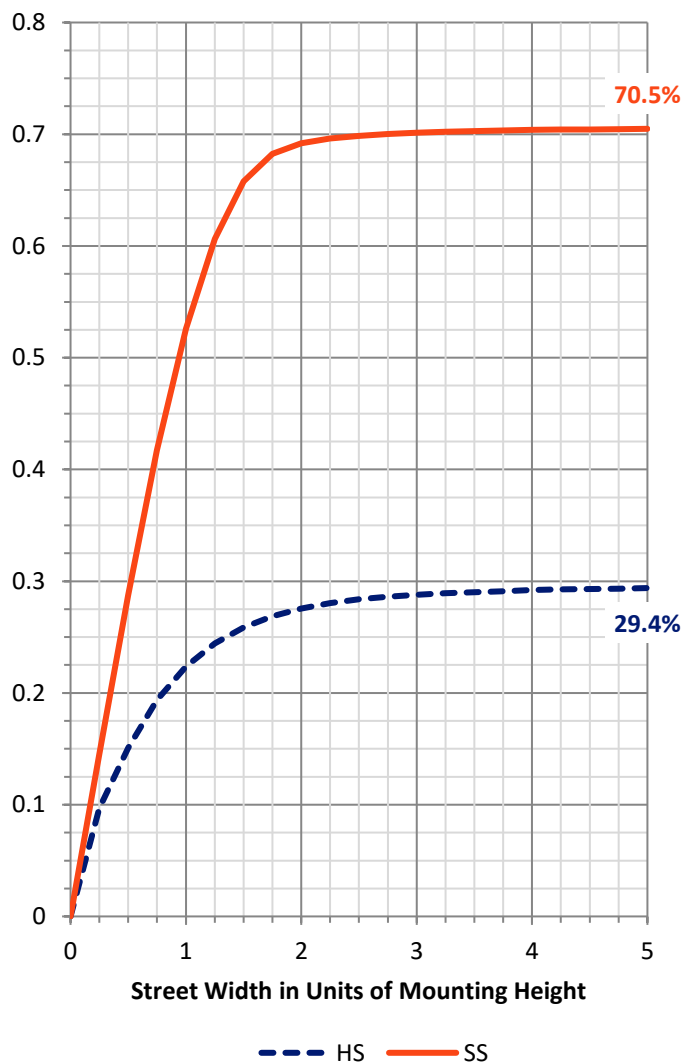
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	876.8	0.0	876.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	2092.2	0.0	2092.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	2969.0	0.0	2969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	2.3
10°-20°	189.0	6.4
20°-30°	323.4	10.9
30°-40°	495.6	16.7
40°-50°	669.8	22.6
50°-60°	769.3	25.9
60°-70°	350.7	11.8
70°-80°	86.5	2.9
80°-90°	15.7	0.5
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°	2969.0	100.0
0°-180°	2969.0	100.0

Coefficient of Utilization



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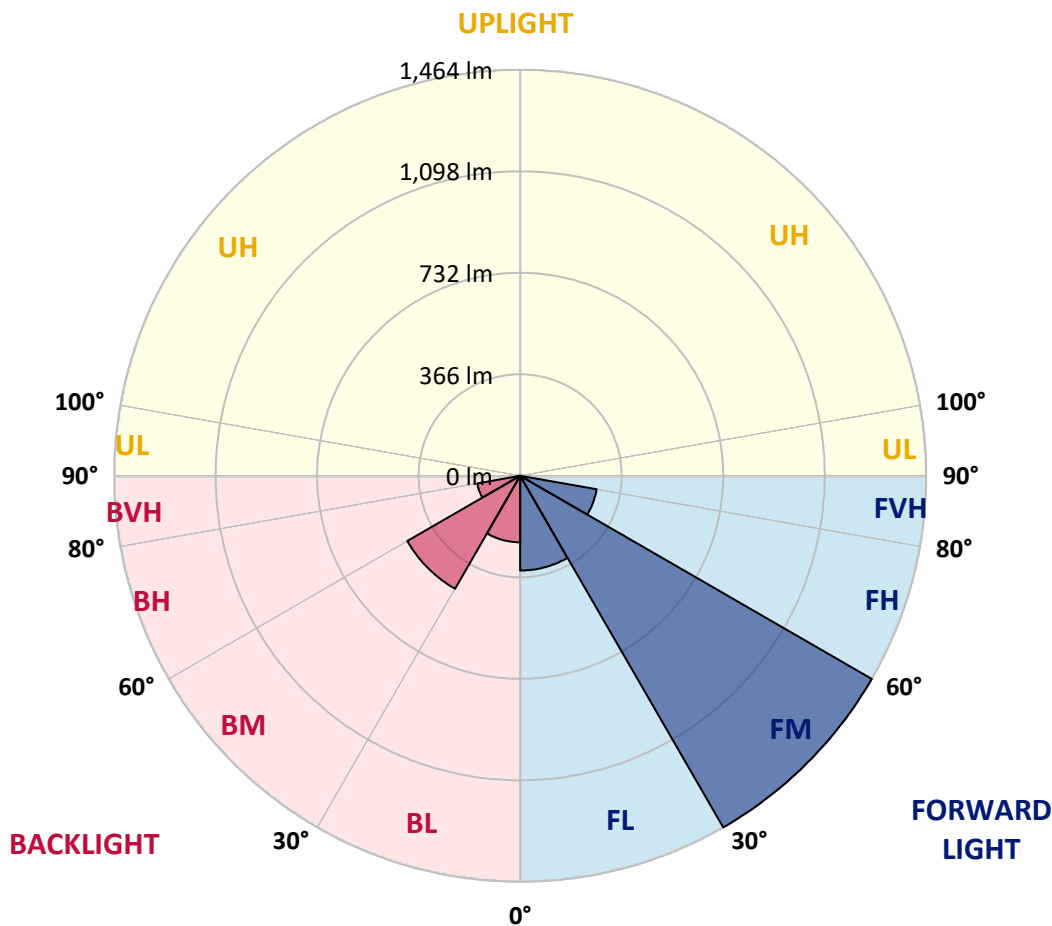
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.6	11.5			
FM (30°-60°)	1464.4	49.3			
FH (60°-80°)	279.9	9.4			G0/660
FVH (80°-90°)	6.3	0.2			G0/10
BL (0°-30°)	239.8	8.1	B1/500		
BM (30°-60°)	470.3	15.8	B1/1000		
BH (60°-80°)	157.2	5.3	B1/500		G1/500
BVH (80°-90°)	9.4	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6
2.5°	722.7	720.8	725.3	728.6	732.7	737.8	740.4	741.9	754.8	751.5	761.5
5°	707.1	702.3	705.7	708.2	715.3	721.6	728.6	739.7	751.5	756.7	768.9
7.5°	693.4	690.9	690.1	692.0	701.6	709.7	721.9	738.2	757.4	765.9	773.0
10°	670.9	667.2	672.7	684.9	687.5	704.5	718.6	741.9	758.5	773.3	794.0
12.5°	660.9	657.2	658.3	665.3	683.5	699.7	716.4	742.6	777.8	783.7	811.4
15°	676.8	673.1	674.2	672.4	689.7	698.3	724.5	757.4	791.1	801.1	830.7
17.5°	713.0	713.4	708.6	704.5	700.5	718.6	736.7	766.3	796.3	821.4	843.6
20°	782.2	770.0	760.4	737.5	731.2	738.9	761.9	790.3	817.3	838.1	863.2
22.5°	835.5	836.6	822.9	785.2	771.5	774.8	794.4	817.7	847.3	862.1	890.9
25°	912.8	905.0	890.2	860.2	829.5	832.1	846.6	867.6	875.8	886.1	917.6
27.5°	983.4	985.6	956.4	928.3	890.2	882.8	908.7	912.4	898.7	918.3	929.0
30°	1055.2	1053.3	1034.1	1001.2	963.8	965.3	976.7	958.6	939.8	950.5	957.9
32.5°	1129.5	1108.4	1107.7	1078.1	1049.6	1035.9	1021.9	1030.7	1001.5	1003.7	996.7
35°	1189.0	1192.0	1175.0	1153.9	1139.8	1115.8	1077.3	1093.2	1087.7	1085.1	1054.8
37.5°	1232.3	1220.8	1229.3	1222.3	1209.0	1179.0	1139.1	1154.3	1156.9	1169.4	1134.3
40°	1267.8	1263.0	1285.6	1289.3	1280.0	1215.3	1143.5	1188.7	1227.5	1254.9	1213.1
42.5°	1284.8	1295.2	1318.8	1347.3	1326.6	1257.5	1166.5	1214.9	1301.5	1344.7	1287.8
45°	1307.8	1294.4	1329.6	1381.7	1382.1	1293.0	1188.7	1250.4	1359.2	1422.0	1338.8
47.5°	1284.5	1291.1	1327.4	1393.6	1410.6	1330.3	1248.6	1300.7	1422.8	1478.6	1386.2
50°	1232.3	1245.6	1311.8	1380.6	1432.0	1369.9	1317.4	1355.1	1481.6	1524.1	1393.9
52.5°	1177.9	1185.3	1288.9	1390.6	1441.6	1420.9	1409.5	1430.2	1553.3	1575.5	1403.5
55°	1030.0	1065.1	1213.1	1386.2	1488.6	1513.0	1504.1	1534.5	1634.7	1656.9	1456.1
56°	961.6	980.1	1167.6	1365.4	1497.8	1546.7	1542.2	1555.9	1678.0	1701.3	1464.2
57.5°	835.1	836.6	995.6	1273.7	1463.1	1556.7	1552.2	1562.9	1669.5	1653.6	1392.8
60°	522.6	545.5	677.5	979.7	1244.1	1444.2	1469.4	1383.2	1407.6	1374.0	1083.6
62.5°	270.7	267.4	355.0	572.9	825.9	1034.1	1057.4	1053.3	1015.6	966.4	707.9
65°	135.0	135.7	185.7	283.7	423.1	541.4	606.5	613.6	513.3	472.3	335.8
67.5°	98.0	101.7	133.5	173.5	199.3	223.0	273.3	268.1	203.0	193.1	179.0
70°	76.2	79.5	108.4	132.4	120.2	120.2	130.9	135.4	144.6	148.7	153.5
72.5°	55.5	58.1	82.8	91.4	78.8	84.7	98.0	108.4	118.0	119.5	125.0
75°	38.1	40.3	54.4	50.3	47.3	58.4	71.7	81.4	88.4	92.1	95.4
77.5°	24.8	25.5	31.1	26.3	30.3	37.7	46.6	54.7	61.8	64.7	65.5
80°	11.1	12.2	13.3	16.6	21.1	27.0	33.3	39.9	44.4	45.5	47.7
82.5°	6.3	6.3	8.1	11.8	15.5	19.6	24.0	28.8	34.0	35.1	34.8
85°	3.3	3.3	4.8	7.0	9.6	11.5	11.1	11.5	12.2	14.1	13.7
87.5°	1.1	1.1	1.5	1.5	1.8	2.2	1.8	2.6	3.3	3.3	3.3
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°	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6
2.5°	758.5	761.9	757.4	767.0	767.0	765.2	756.0	758.9	761.1	761.1	763.0
5°	773.0	771.9	774.8	763.3	756.3	753.7	738.6	731.2	724.9	724.5	719.0
7.5°	781.1	778.1	777.0	768.5	737.5	718.6	686.1	667.2	663.1	648.7	654.2
10°	794.0	799.6	794.0	747.8	704.5	661.3	629.5	600.2	588.8	579.5	574.0
12.5°	820.7	818.1	785.9	723.4	662.8	611.3	564.0	533.3	521.8	513.7	513.0
15°	843.2	830.3	781.1	684.9	597.7	542.9	504.1	482.3	477.1	477.8	481.2
17.5°	851.0	842.1	756.0	645.0	549.2	484.9	466.7	463.4	468.2	473.8	475.2
20°	863.2	849.2	745.6	590.6	489.3	448.6	447.5	459.3	468.2	476.4	477.5
22.5°	888.7	853.2	711.9	539.2	448.2	437.9	448.6	458.6	472.3	478.9	473.0
25°	896.1	844.3	664.6	477.5	422.4	431.2	442.7	456.4	466.0	469.7	472.3
27.5°	902.4	830.7	600.6	436.4	414.2	430.9	442.7	454.2	459.3	462.7	465.6
30°	920.2	826.6	545.1	409.0	409.0	423.5	438.6	441.6	448.6	452.7	457.9
32.5°	929.0	798.5	488.2	391.7	403.9	427.2	428.3	433.8	434.2	437.5	432.0
35°	952.3	778.5	435.3	379.1	406.1	423.5	429.0	425.7	407.6	398.7	400.5
37.5°	969.3	768.5	397.2	377.6	406.5	427.5	430.5	405.3	386.5	371.7	375.4
40°	1015.2	743.7	368.4	375.0	409.8	432.0	423.8	396.5	362.4	347.3	344.7
42.5°	1050.3	726.0	350.2	372.1	412.4	438.3	420.5	378.7	344.0	329.9	333.6
45°	1091.0	721.9	340.6	372.8	416.8	441.6	416.4	365.0	328.0	322.5	321.4
47.5°	1105.4	692.7	330.3	366.5	415.7	440.5	402.8	354.7	322.1	322.9	325.8
50°	1081.4	662.8	322.5	353.6	408.3	430.5	381.3	341.0	318.8	328.0	333.2
52.5°	1050.7	632.1	306.6	336.2	393.1	415.0	371.3	340.3	315.5	312.5	313.6
55°	1060.0	606.9	284.4	312.5	368.7	386.1	360.2	333.2	307.3	296.2	299.9
56°	1030.0	581.0	270.0	297.7	352.1	367.6	354.7	326.9	300.7	293.3	293.3
57.5°	945.3	494.1	251.1	274.1	317.0	335.4	344.0	323.2	293.3	280.3	280.7
60°	697.1	351.3	225.2	241.5	262.6	277.4	317.0	312.9	274.8	265.9	262.6
62.5°	429.8	256.7	206.7	213.0	223.8	236.0	276.6	283.3	255.2	245.6	243.4
65°	240.8	196.4	192.7	195.3	200.5	206.7	229.7	244.5	225.2	210.4	209.7
67.5°	176.0	175.7	178.6	180.9	183.1	183.1	188.6	194.5	191.9	180.1	179.0
70°	156.4	157.6	159.8	160.1	160.9	158.3	153.9	152.0	155.0	147.6	146.1
72.5°	129.1	132.8	135.4	135.7	131.7	128.3	122.4	116.1	113.9	112.4	112.1
75°	99.1	101.7	102.8	102.4	101.0	96.2	89.1	82.8	78.8	74.3	76.6
77.5°	66.9	70.6	72.5	72.5	70.3	62.9	59.5	54.7	50.7	45.9	46.6
80°	47.0	49.6	52.5	52.1	48.4	44.8	39.9	35.5	32.2	28.5	28.1
82.5°	35.1	36.6	38.1	37.4	34.8	31.1	27.7	23.7	20.0	17.4	17.4
85°	12.6	13.7	16.6	17.4	18.9	18.9	15.9	13.3	10.7	8.9	8.9
87.5°	3.7	3.7	4.1	4.1	3.7	4.1	3.3	3.7	4.1	2.6	2.6
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)