

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: P526215

Luminaire Tested: **GALN-SA1A-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
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-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2031 lumens
Efficiency: N/A
Efficacy: 61.5 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

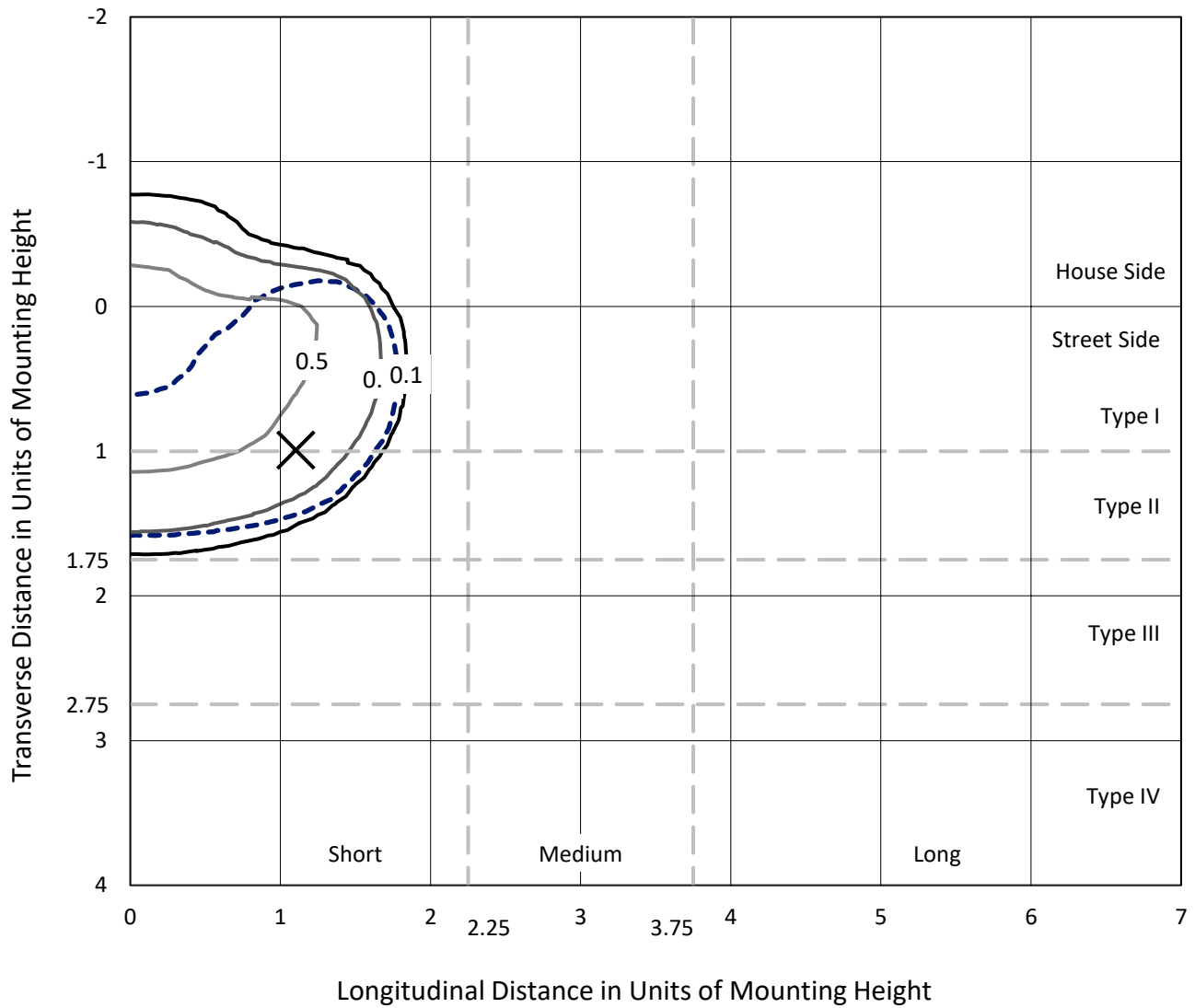
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

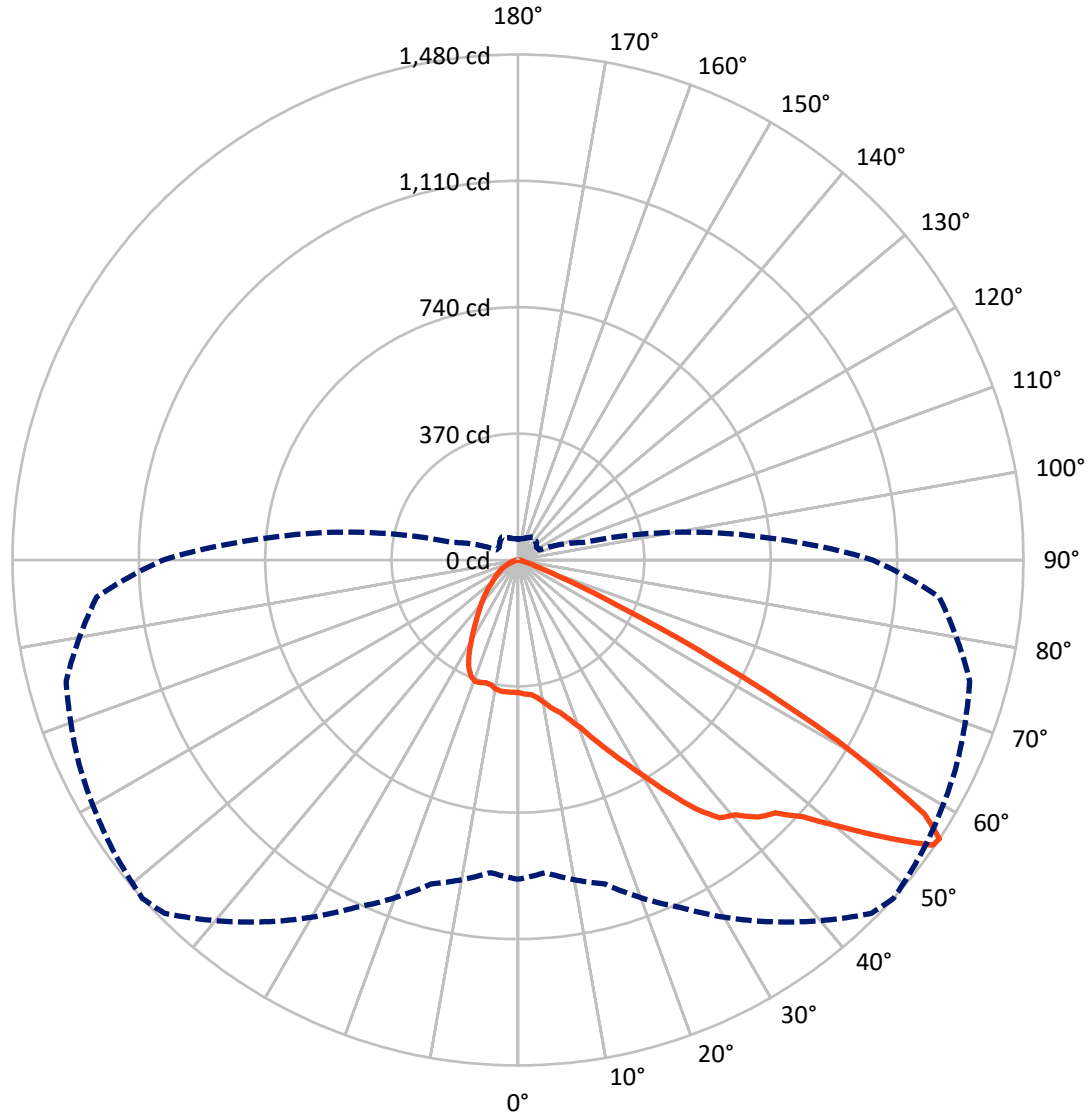
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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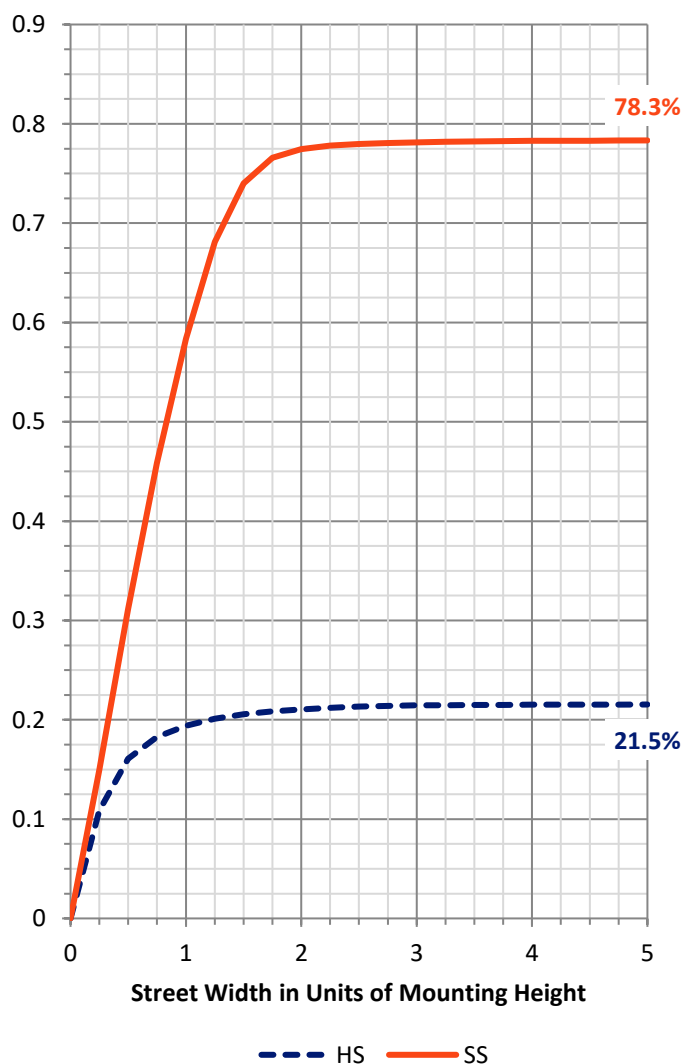
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	441.7	0.0	441.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	1589.3	0.0	1589.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	2031.0	0.0	2031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	1.9
10°-20°	120.8	5.9
20°-30°	219.0	10.8
30°-40°	344.1	16.9
40°-50°	501.9	24.7
50°-60°	604.7	29.8
60°-70°	177.1	8.7
70°-80°	22.5	1.1
80°-90°	3.2	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°	2031.0	100.0
0°-180°	2031.0	100.0

Coefficient of Utilization

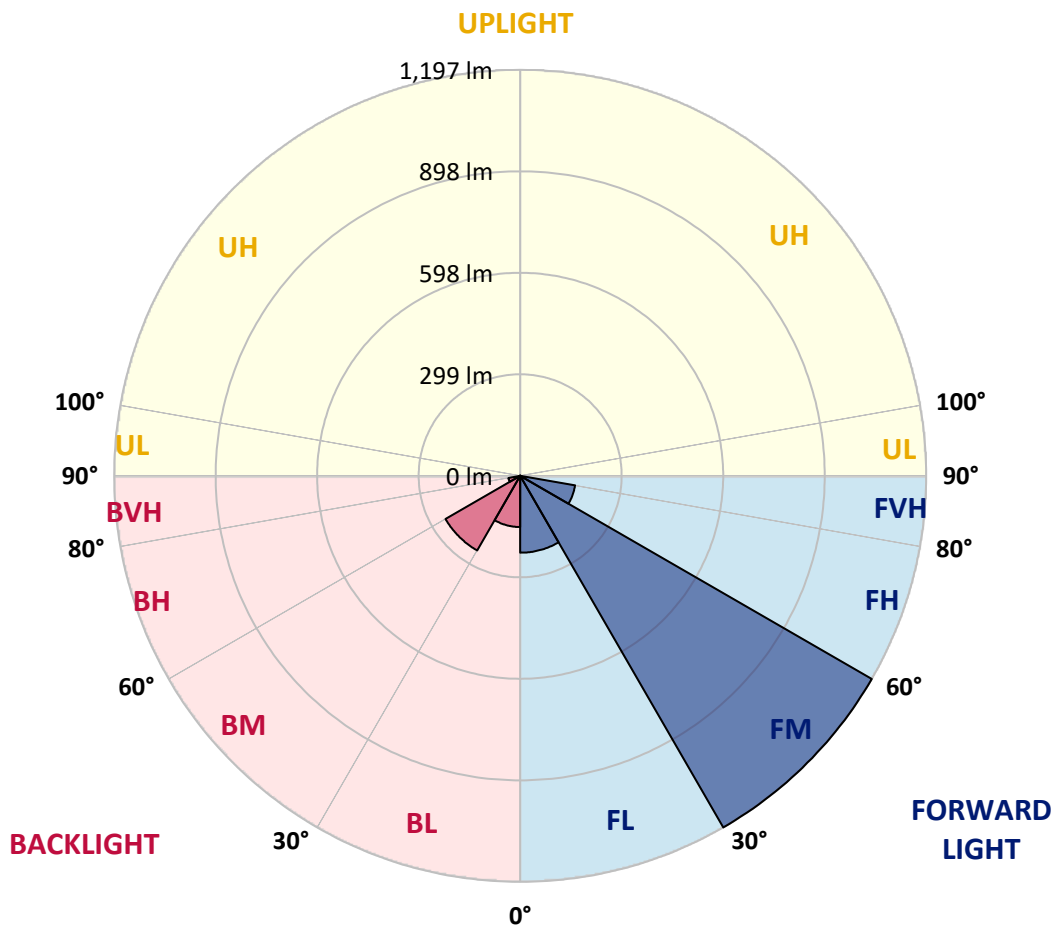


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.6	11.2			
FM (30°-60°)	1196.7	58.9			
FH (60°-80°)	164.4	8.1			G0/660
FVH (80°-90°)	1.6	0.1			G0/10
BL (0°-30°)	151.0	7.4	B1/500		
BM (30°-60°)	254.1	12.5	B1/1000		
BH (60°-80°)	35.1	1.7	B0/110		G0/110
BVH (80°-90°)	1.6	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°	48°	55°	65°	75°	85°
0°	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9
2.5°	394.9	393.1	393.1	390.1	393.5	392.0	393.1	389.4	393.1	387.6	392.0
5°	396.8	397.2	395.7	397.5	397.5	399.8	396.1	399.4	401.2	397.2	395.3
7.5°	406.4	407.2	406.8	405.3	408.3	407.9	407.5	404.9	405.7	404.2	402.0
10°	425.3	424.9	426.8	423.1	420.8	423.4	424.2	420.1	417.1	416.0	409.0
12.5°	452.6	448.2	445.6	441.9	443.0	439.3	446.0	439.0	437.5	430.8	423.8
15°	474.8	474.1	474.5	468.5	461.9	463.4	463.4	459.7	457.4	449.3	439.3
17.5°	520.3	504.8	508.1	500.7	495.2	494.8	491.5	492.2	486.3	469.3	454.1
20°	555.8	549.2	544.0	531.4	522.9	525.5	524.0	520.3	518.5	496.3	474.8
22.5°	587.6	589.8	581.3	578.0	566.2	567.3	570.2	566.9	552.9	529.9	498.1
25°	632.4	629.8	618.3	614.2	603.1	607.2	618.7	616.1	607.2	565.8	516.2
27.5°	685.2	676.4	678.6	660.1	649.4	660.8	674.5	687.5	662.3	608.0	537.7
30°	722.6	713.3	712.6	711.9	709.3	722.6	738.5	750.3	730.0	650.1	573.2
32.5°	741.1	743.3	749.6	747.4	769.9	797.3	813.9	830.9	805.4	718.9	620.2
35°	790.3	776.2	790.3	791.7	815.0	873.1	894.2	934.9	928.6	816.2	677.5
37.5°	819.1	818.0	819.9	833.9	856.5	928.2	958.2	989.6	977.8	874.6	748.8
40°	866.8	869.8	869.4	880.1	904.9	969.6	981.8	1007.3	1008.4	955.6	853.9
42.5°	943.4	931.5	923.8	934.9	969.6	1005.5	1029.9	1024.7	1061.3	1053.9	988.8
45°	1012.1	1019.2	1007.7	1026.2	1038.8	1058.0	1057.3	1068.4	1115.0	1150.1	1090.5
47.5°	1076.5	1080.9	1086.5	1099.1	1126.4	1129.4	1123.1	1118.3	1182.6	1218.9	1169.3
50°	1115.0	1119.0	1144.9	1167.5	1218.5	1225.2	1228.9	1216.6	1260.3	1264.4	1243.6
52.5°	1104.6	1109.0	1145.3	1219.6	1301.0	1362.0	1350.9	1330.2	1327.6	1343.5	1312.4
55°	1012.9	1008.8	1058.7	1174.5	1326.8	1473.3	1474.8	1453.0	1411.2	1400.4	1302.1
56°	934.9	919.0	982.6	1122.3	1293.6	1463.7	1480.3	1457.0	1417.8	1369.7	1238.1
57.5°	765.9	781.0	844.3	960.0	1178.6	1394.5	1404.1	1398.6	1369.0	1288.4	1089.4
60°	422.3	448.9	504.8	646.4	839.1	1070.2	1078.0	1123.1	1128.6	986.6	749.6
62.5°	179.4	176.4	234.5	338.7	477.8	646.0	660.5	706.7	715.2	568.8	376.1
65°	72.9	76.9	106.1	170.5	252.6	294.4	314.7	329.9	358.0	234.8	138.7
67.5°	48.1	47.7	62.5	97.3	136.1	131.3	131.3	138.7	128.3	95.8	59.9
70°	34.4	35.5	44.7	67.3	84.7	62.9	60.3	57.7	65.5	63.2	48.4
72.5°	22.6	24.0	30.0	40.3	44.0	34.4	34.4	41.4	54.0	51.0	39.6
75°	14.8	15.2	18.5	23.3	21.8	17.8	19.6	27.7	39.2	37.7	28.1
77.5°	10.0	10.4	12.6	15.2	12.2	10.0	10.7	14.1	19.2	19.2	14.8
80°	3.7	4.1	5.2	4.8	5.5	7.0	7.8	9.6	11.5	11.5	10.0
82.5°	0.0	0.4	1.1	2.6	4.1	5.5	6.3	7.4	8.5	9.6	9.2
85°	0.0	0.4	1.1	1.8	3.0	3.3	3.7	2.6	2.2	2.2	1.8
87.5°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.4	0.4
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°	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9
2.5°	387.9	387.6	387.6	386.4	388.7	387.6	388.3	387.9	383.1	386.8	384.2
5°	392.0	394.6	390.5	389.8	386.8	387.9	387.9	384.2	387.6	387.2	386.4
7.5°	402.3	397.9	393.5	389.0	388.3	387.2	383.1	381.6	384.2	381.3	385.7
10°	406.8	407.5	400.9	394.9	389.4	381.6	376.1	372.8	368.7	373.1	375.7
12.5°	427.1	419.7	408.3	399.0	380.2	372.4	366.8	365.4	372.4	373.9	371.3
15°	434.1	433.0	418.2	397.5	377.9	368.7	369.8	366.8	367.6	363.9	364.6
17.5°	448.6	436.0	418.6	392.7	377.6	375.3	368.7	356.9	350.2	347.2	349.8
20°	464.5	452.3	427.1	394.6	380.9	375.0	353.2	338.7	325.1	317.7	318.0
22.5°	478.5	463.4	423.4	395.3	383.9	359.4	333.2	304.7	287.7	276.2	276.6
25°	495.5	474.1	424.9	396.8	376.1	334.7	297.0	269.2	248.9	241.1	243.7
27.5°	505.1	480.7	433.0	400.1	355.7	299.5	258.9	233.0	221.1	217.4	217.1
30°	534.0	495.5	443.0	393.5	321.7	261.8	224.1	208.2	196.7	193.4	194.1
32.5°	576.9	522.5	456.0	376.1	287.0	228.2	201.5	189.7	179.0	172.7	172.0
35°	612.8	568.8	469.6	349.1	246.7	202.3	185.6	170.8	154.6	147.6	145.7
37.5°	681.2	620.9	466.7	308.4	208.2	183.1	168.6	150.5	136.5	126.8	125.7
40°	772.1	681.9	452.3	258.9	179.7	166.0	150.5	133.1	115.7	107.6	106.9
42.5°	882.7	756.6	426.0	208.6	151.2	149.0	135.0	115.0	99.5	93.6	93.9
45°	972.6	820.6	399.4	167.5	130.2	132.4	120.2	101.3	90.6	85.8	85.8
47.5°	1052.5	863.9	370.5	138.3	110.6	115.7	105.0	93.9	84.7	81.0	80.2
50°	1129.4	907.9	341.7	112.0	94.3	99.5	98.4	89.5	82.1	77.7	78.0
52.5°	1177.4	914.9	305.1	91.7	82.5	88.4	92.1	83.9	75.8	73.2	72.5
55°	1118.6	824.3	236.7	75.4	69.9	77.7	84.7	75.4	69.2	64.7	64.3
56°	1039.5	737.0	197.8	69.5	66.2	74.7	82.1	72.1	65.1	62.5	60.6
57.5°	880.1	603.1	146.1	61.8	61.4	69.5	78.0	68.8	60.6	58.4	58.4
60°	548.8	339.5	88.4	51.8	53.3	61.8	70.3	61.4	54.0	54.0	55.1
62.5°	250.0	141.3	53.6	44.0	45.9	53.3	62.5	55.5	51.4	55.5	56.2
65°	85.1	61.0	38.8	35.1	36.2	44.0	53.6	56.2	55.8	58.4	59.9
67.5°	47.7	39.2	32.5	29.2	28.5	32.5	44.0	56.2	54.0	52.9	53.6
70°	40.3	33.3	28.8	25.9	24.8	26.3	34.0	42.5	38.1	37.0	36.2
72.5°	32.5	27.7	25.1	23.3	20.0	17.0	15.5	16.3	18.1	19.2	21.1
75°	22.9	21.1	21.1	18.9	14.4	10.7	8.5	7.0	4.8	3.3	3.7
77.5°	12.9	12.9	13.3	11.5	9.2	7.0	5.2	3.7	1.8	0.7	0.4
80°	8.9	9.6	10.4	9.2	7.8	6.3	4.4	2.6	1.1	0.0	0.0
82.5°	8.9	10.0	10.7	9.2	7.8	5.9	4.4	2.6	1.1	0.4	0.0
85°	1.8	2.2	2.6	3.0	4.4	4.4	3.3	2.2	1.1	0.4	0.0
87.5°	0.4	0.4	0.4	0.4	0.4	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)