

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: P526111

Luminaire Tested: **GALN-SA1A-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526111
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-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 2574 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

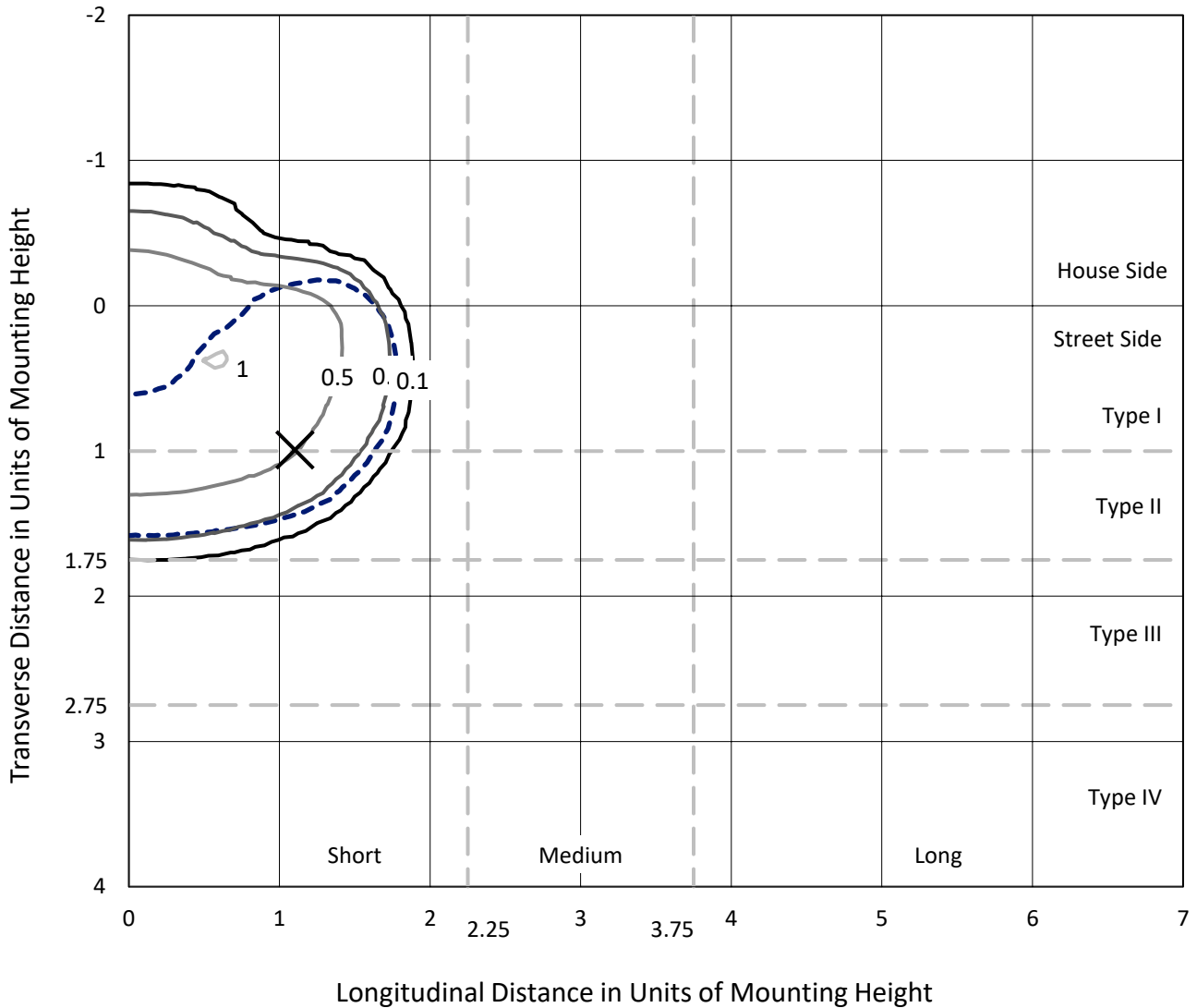
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA1A-735-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

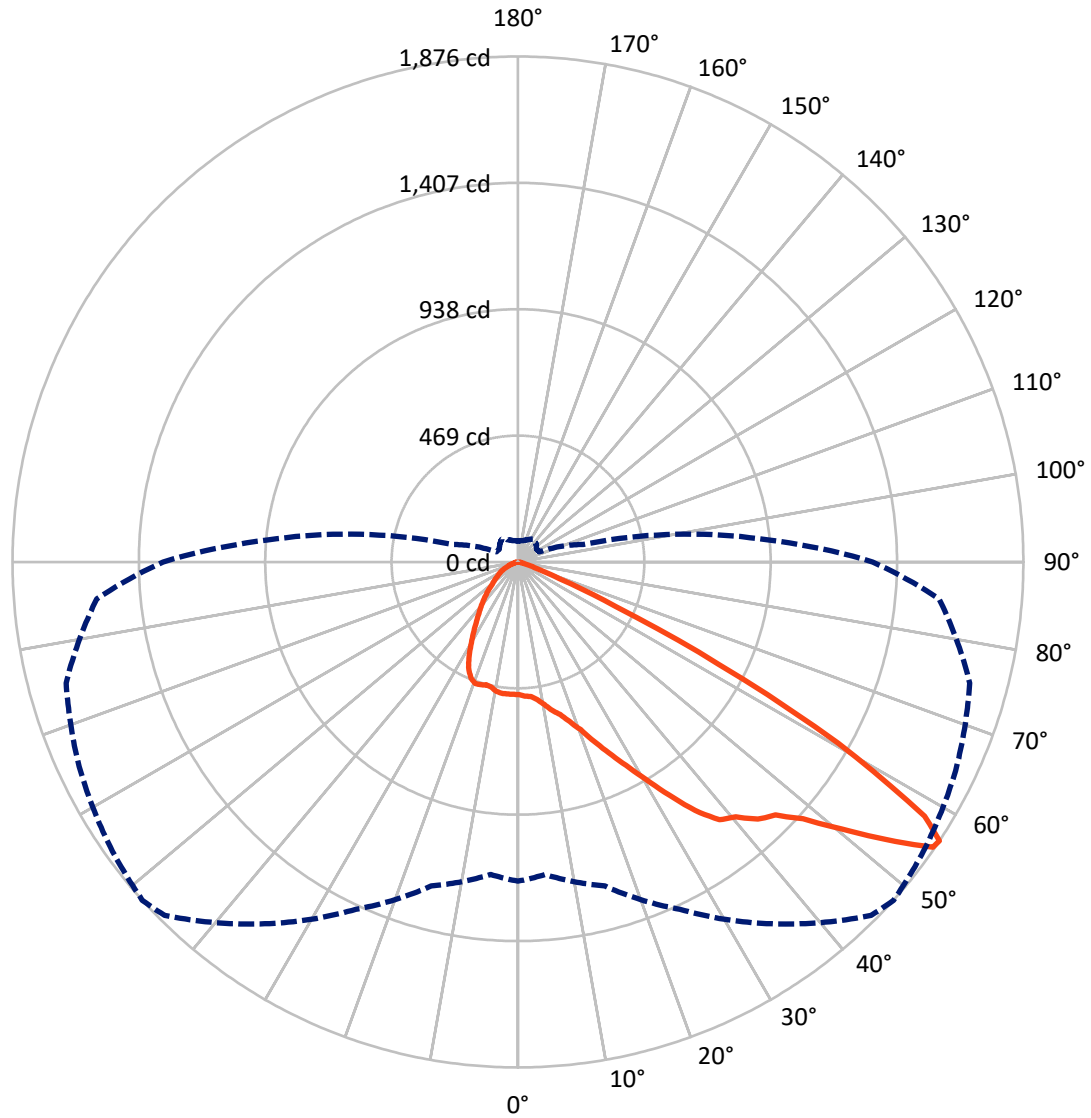
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GALN-SA1A-735-U-T3-GRSBK

Luminous Intensity Polar Plot



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

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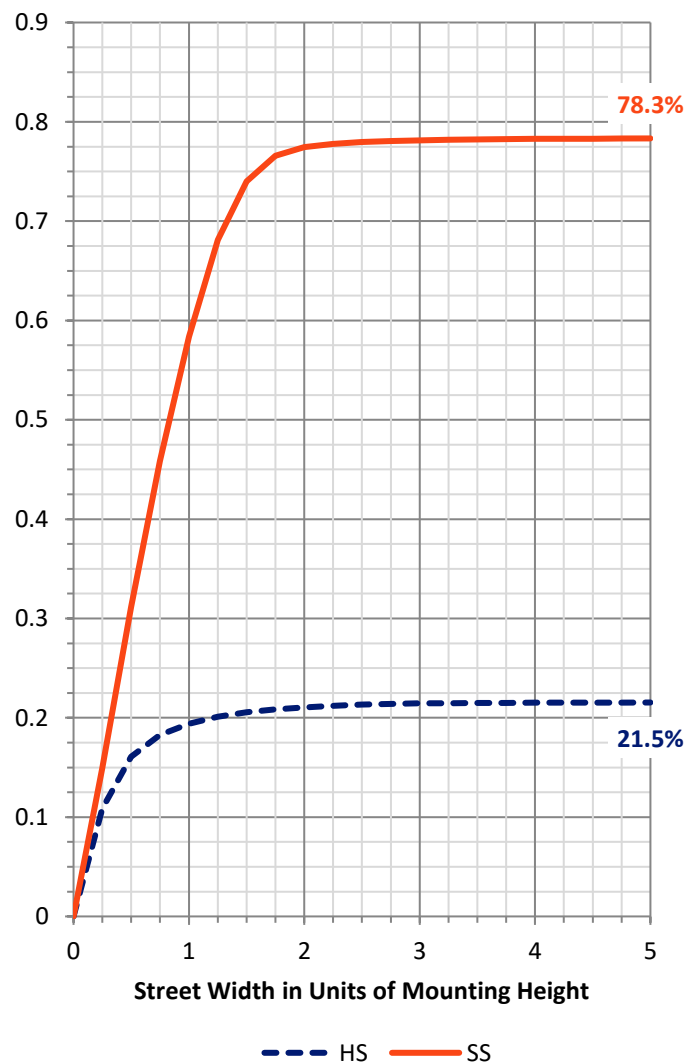
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	559.8	0.0	559.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2014.2	0.0	2014.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	2574.0	0.0	2574.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	1.9
10°-20°	153.1	5.9
20°-30°	277.6	10.8
30°-40°	436.1	16.9
40°-50°	636.1	24.7
50°-60°	766.4	29.8
60°-70°	224.4	8.7
70°-80°	28.5	1.1
80°-90°	4.0	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°	2574.0	100.0
0°-180°	2574.0	100.0

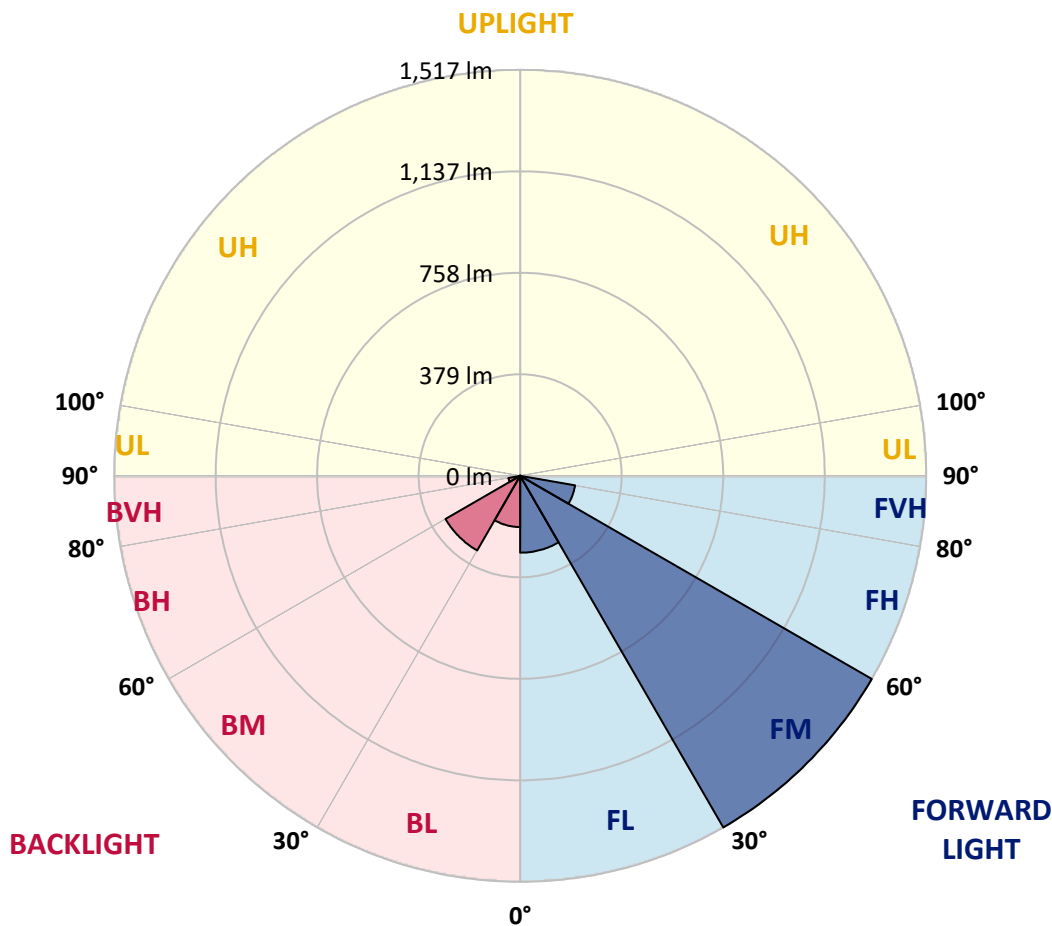


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	287.2	11.2			
FM (30°-60°)	1516.6	58.9			
FH (60°-80°)	208.4	8.1			G0/660
FVH (80°-90°)	2.0	0.1			G0/10
BL (0°-30°)	191.3	7.4	B1/500		
BM (30°-60°)	322.0	12.5	B1/1000		
BH (60°-80°)	44.5	1.7	B0/110		G0/110
BVH (80°-90°)	2.0	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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CATALOG NUMBER: GALN-SA1A-735-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6
2.5°	500.5	498.2	498.2	494.4	498.7	496.8	498.2	493.5	498.2	491.2	496.8
5°	502.9	503.4	501.5	503.8	503.8	506.6	501.9	506.2	508.5	503.4	501.0
7.5°	515.1	516.0	515.5	513.7	517.4	516.9	516.5	513.2	514.1	512.3	509.4
10°	539.0	538.5	540.8	536.2	533.3	536.6	537.6	532.4	528.7	527.3	518.3
12.5°	573.7	568.0	564.7	560.1	561.5	556.8	565.2	556.3	554.4	546.0	537.1
15°	601.8	600.8	601.3	593.8	585.4	587.2	587.2	582.6	579.7	569.4	556.8
17.5°	659.4	639.7	644.0	634.6	627.5	627.1	622.9	623.8	616.3	594.7	575.5
20°	704.4	696.0	689.4	673.5	662.7	666.0	664.1	659.4	657.1	629.0	601.8
22.5°	744.7	747.5	736.7	732.5	717.5	718.9	722.7	718.5	700.7	671.6	631.3
25°	801.4	798.1	783.6	778.5	764.4	769.6	784.1	780.8	769.6	717.1	654.3
27.5°	868.4	857.2	860.0	836.6	823.0	837.5	854.9	871.3	839.4	770.5	681.4
30°	915.8	904.1	903.1	902.2	898.9	915.8	935.9	950.9	925.2	823.9	726.4
32.5°	939.2	942.0	950.0	947.2	975.8	1010.5	1031.5	1053.1	1020.8	911.1	786.0
35°	1001.5	983.7	1001.5	1003.4	1032.9	1106.5	1133.2	1184.8	1176.8	1034.4	858.6
37.5°	1038.1	1036.7	1039.0	1056.9	1085.4	1176.4	1214.3	1254.2	1239.2	1108.4	949.1
40°	1098.6	1102.3	1101.8	1115.4	1146.8	1228.9	1244.3	1276.7	1278.1	1211.0	1082.2
42.5°	1195.6	1180.6	1170.7	1184.8	1228.9	1274.3	1305.2	1298.7	1345.1	1335.7	1253.2
45°	1282.8	1291.7	1277.1	1300.6	1316.5	1340.9	1339.9	1354.0	1413.0	1457.6	1382.1
47.5°	1364.3	1369.9	1377.0	1392.9	1427.6	1431.3	1423.4	1417.3	1498.8	1544.7	1481.9
50°	1413.0	1418.2	1451.0	1479.6	1544.3	1552.7	1557.4	1541.9	1597.2	1602.4	1576.1
52.5°	1399.9	1405.5	1451.5	1545.7	1648.8	1726.1	1712.1	1685.8	1682.5	1702.7	1663.3
55°	1283.7	1278.5	1341.8	1488.5	1681.6	1867.2	1869.1	1841.4	1788.4	1774.9	1650.2
56°	1184.8	1164.6	1245.3	1422.4	1639.4	1855.0	1876.1	1846.6	1796.9	1736.0	1569.1
57.5°	970.6	989.8	1070.0	1216.7	1493.7	1767.4	1779.5	1772.5	1735.0	1632.8	1380.7
60°	535.2	569.0	639.7	819.2	1063.4	1356.3	1366.2	1423.4	1430.4	1250.4	950.0
62.5°	227.3	223.6	297.1	429.3	605.5	818.8	837.0	895.6	906.4	720.8	476.6
65°	92.3	97.5	134.5	216.1	320.1	373.1	398.8	418.1	453.7	297.6	175.8
67.5°	60.9	60.5	79.2	123.3	172.5	166.4	166.4	175.8	162.6	121.4	75.9
70°	43.6	45.0	56.7	85.3	107.3	79.7	76.4	73.1	83.0	80.1	61.4
72.5°	28.6	30.5	38.0	51.1	55.8	43.6	43.6	52.5	68.4	64.7	50.1
75°	18.7	19.2	23.4	29.5	27.7	22.5	24.8	35.2	49.7	47.8	35.6
77.5°	12.7	13.1	15.9	19.2	15.5	12.7	13.6	17.8	24.4	24.4	18.7
80°	4.7	5.2	6.6	6.1	7.0	8.9	9.8	12.2	14.5	14.5	12.7
82.5°	0.0	0.5	1.4	3.3	5.2	7.0	8.0	9.4	10.8	12.2	11.7
85°	0.0	0.5	1.4	2.3	3.7	4.2	4.7	3.3	2.8	2.8	2.3
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.5	0.5
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°	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6
2.5°	491.6	491.2	491.2	489.8	492.6	491.2	492.1	491.6	485.5	490.2	486.9
5°	496.8	500.1	494.9	494.0	490.2	491.6	491.6	486.9	491.2	490.7	489.8
7.5°	509.9	504.3	498.7	493.0	492.1	490.7	485.5	483.7	486.9	483.2	488.8
10°	515.5	516.5	508.0	500.5	493.5	483.7	476.6	472.4	467.3	472.9	476.2
12.5°	541.3	531.9	517.4	505.7	481.8	472.0	464.9	463.0	472.0	473.8	470.5
15°	550.2	548.8	530.1	503.8	479.0	467.3	468.7	464.9	465.9	461.2	462.1
17.5°	568.5	552.6	530.5	497.7	478.5	475.7	467.3	452.3	443.8	440.1	443.4
20°	588.6	573.2	541.3	500.1	482.7	475.2	447.6	429.3	412.0	402.6	403.1
22.5°	606.5	587.2	536.6	501.0	486.5	455.5	422.3	386.2	364.6	350.1	350.6
25°	628.0	600.8	538.5	502.9	476.6	424.1	376.3	341.2	315.4	305.6	308.9
27.5°	640.2	609.3	548.8	507.1	450.9	379.6	328.1	295.3	280.3	275.6	275.1
30°	676.8	628.0	561.5	498.7	407.7	331.8	284.0	263.9	249.3	245.1	246.1
32.5°	731.1	662.2	577.9	476.6	363.7	289.2	255.4	240.4	226.8	218.9	217.9
35°	776.6	720.8	595.2	442.4	312.6	256.4	235.3	216.5	195.9	187.0	184.7
37.5°	863.3	786.9	591.5	390.9	263.9	232.0	213.7	190.7	172.9	160.8	159.3
40°	978.6	864.2	573.2	328.1	227.8	210.4	190.7	168.7	146.7	136.4	135.4
42.5°	1118.7	958.9	539.9	264.3	191.7	188.9	171.1	145.8	126.1	118.6	119.0
45°	1232.6	1040.0	506.2	212.3	165.0	167.8	152.3	128.4	114.8	108.7	108.7
47.5°	1333.8	1094.8	469.6	175.3	140.1	146.7	133.1	119.0	107.3	102.6	101.7
50°	1431.3	1150.6	433.1	142.0	119.5	126.1	124.7	113.4	104.0	98.4	98.9
52.5°	1492.2	1159.5	386.7	116.2	104.5	112.0	116.7	106.4	96.1	92.8	91.9
55°	1417.7	1044.7	299.9	95.6	88.6	98.4	107.3	95.6	87.6	82.0	81.5
56°	1317.4	934.1	250.7	88.1	83.9	94.7	104.0	91.4	82.5	79.2	76.9
57.5°	1115.4	764.4	185.1	78.3	77.8	88.1	98.9	87.2	76.9	74.0	74.0
60°	695.5	430.2	112.0	65.6	67.5	78.3	89.0	77.8	68.4	68.4	69.8
62.5°	316.8	179.0	68.0	55.8	58.1	67.5	79.2	70.3	65.1	70.3	71.2
65°	107.8	77.3	49.2	44.5	45.9	55.8	68.0	71.2	70.8	74.0	75.9
67.5°	60.5	49.7	41.2	37.0	36.1	41.2	55.8	71.2	68.4	67.0	68.0
70°	51.1	42.2	36.6	32.8	31.4	33.3	43.1	53.9	48.3	46.9	45.9
72.5°	41.2	35.2	31.9	29.5	25.3	21.6	19.7	20.6	23.0	24.4	26.7
75°	29.1	26.7	26.7	23.9	18.3	13.6	10.8	8.9	6.1	4.2	4.7
77.5°	16.4	16.4	16.9	14.5	11.7	8.9	6.6	4.7	2.3	0.9	0.5
80°	11.2	12.2	13.1	11.7	9.8	8.0	5.6	3.3	1.4	0.0	0.0
82.5°	11.2	12.7	13.6	11.7	9.8	7.5	5.6	3.3	1.4	0.5	0.0
85°	2.3	2.8	3.3	3.7	5.6	5.6	4.2	2.8	1.4	0.5	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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)