

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: P526095

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
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-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3216 lumens
Efficiency: N/A
Efficacy: 97.5 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

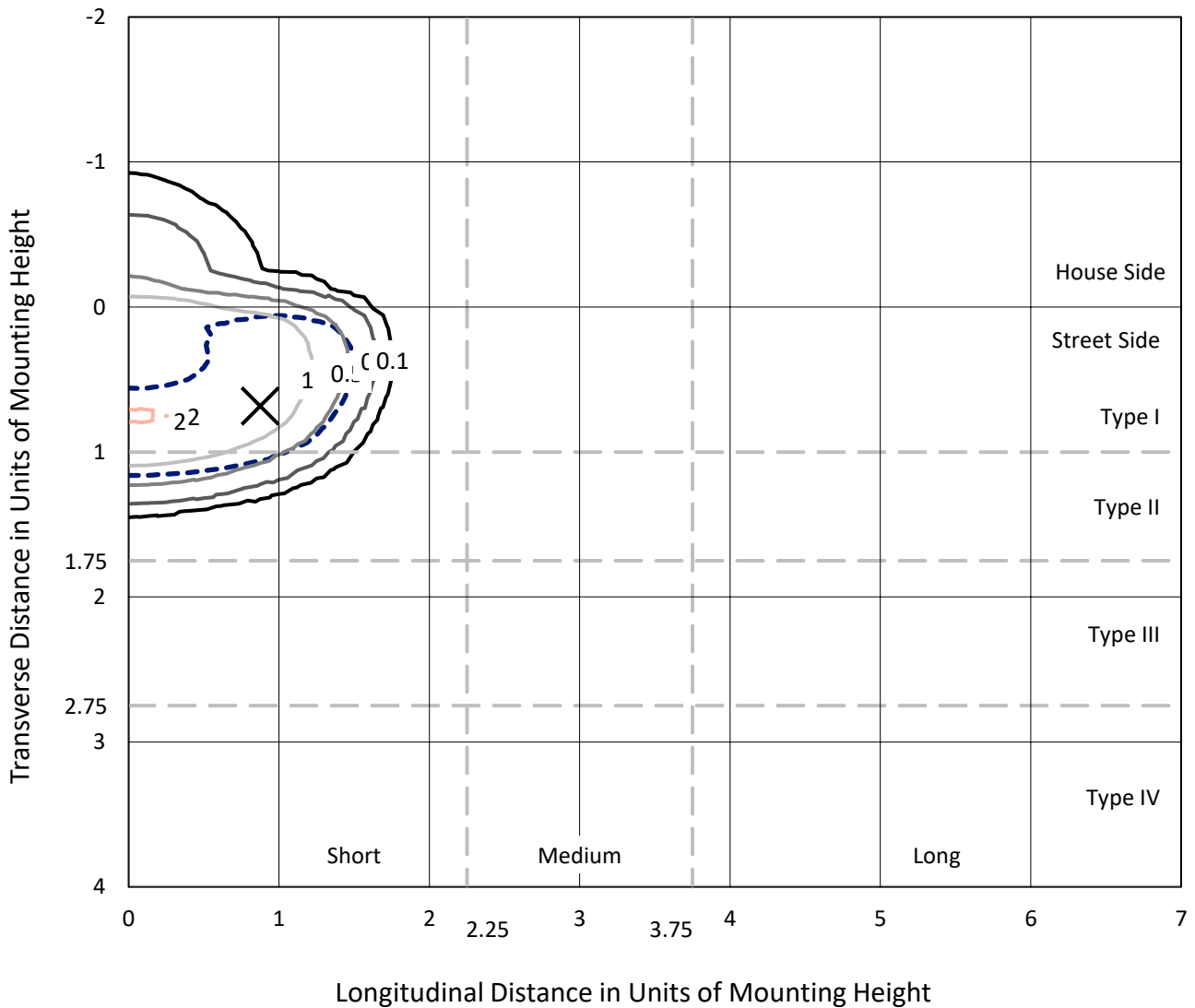
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526095
 CATALOG NUMBER: GALN-SA1A-735-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

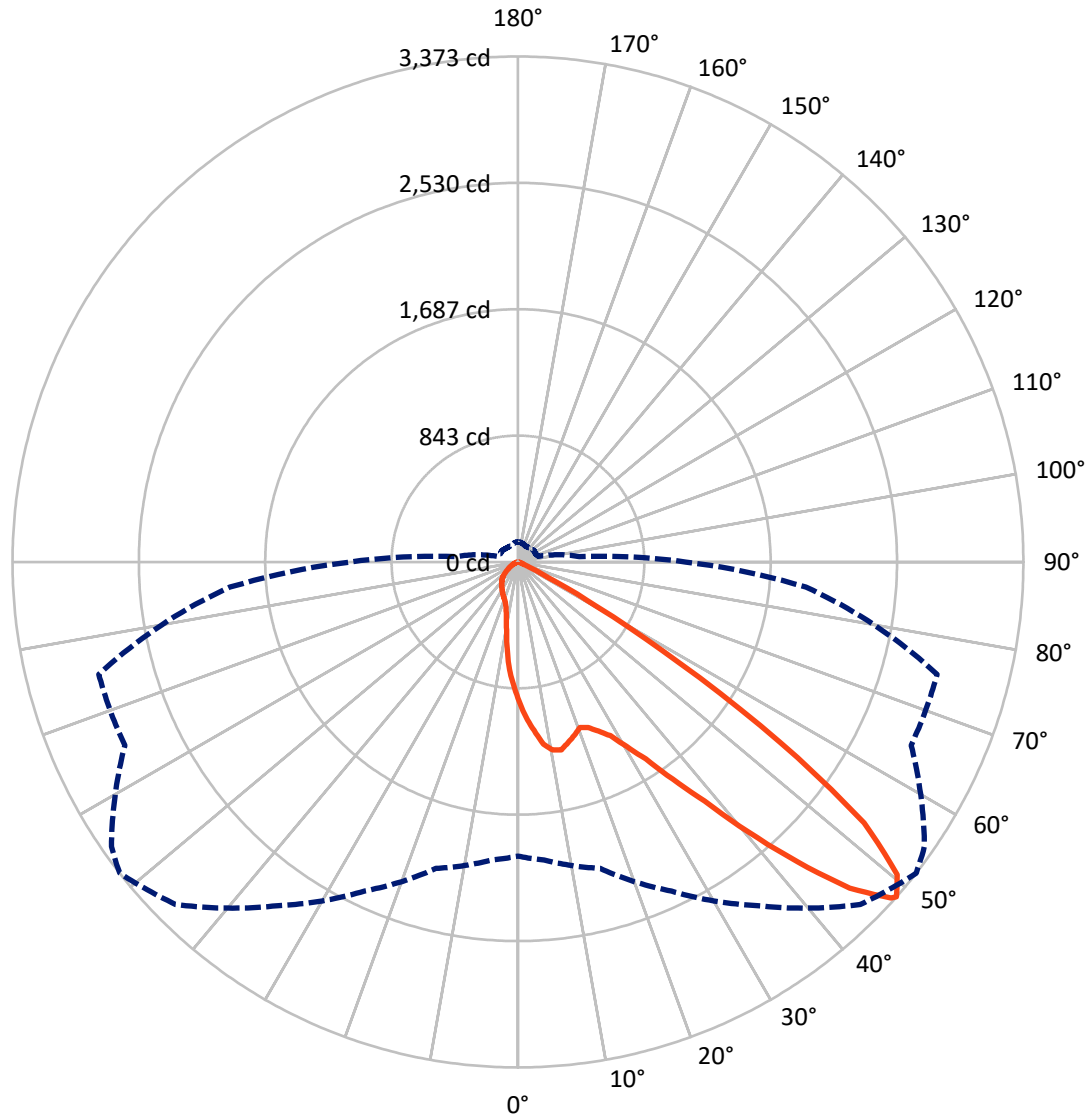
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

REPORT NUMBER: P526095
CATALOG NUMBER: GALN-SA1A-735-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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

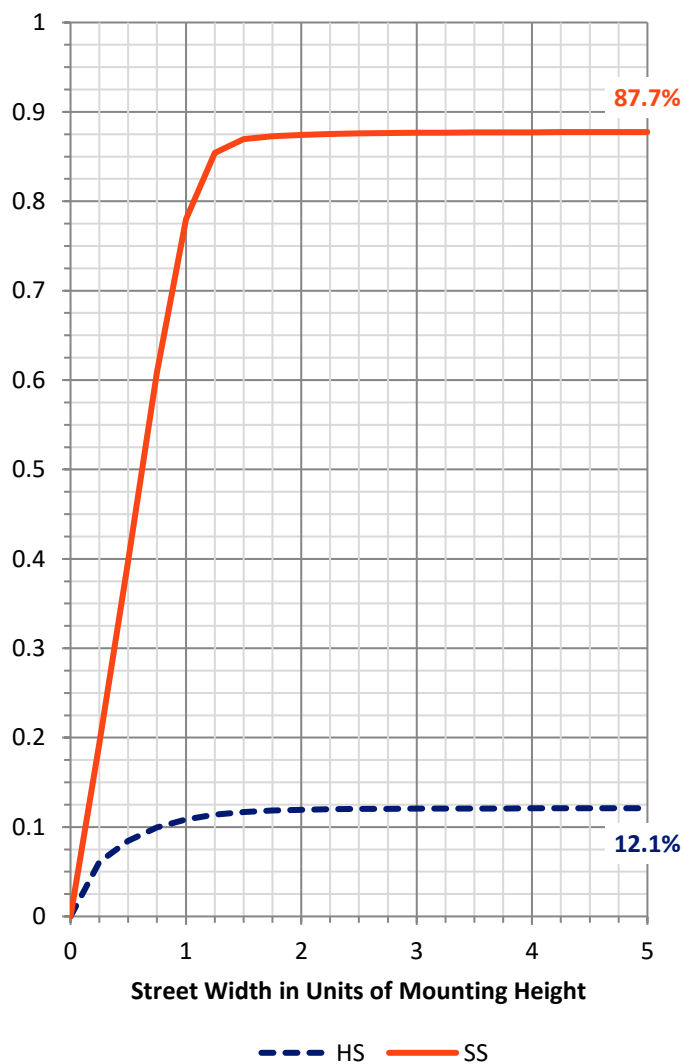
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	391.6	0.0	391.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2824.4	0.0	2824.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	3216.0	0.0	3216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	2.6
10°-20°	222.1	6.9
20°-30°	379.3	11.8
30°-40°	698.5	21.7
40°-50°	1084.7	33.7
50°-60°	652.8	20.3
60°-70°	75.5	2.3
70°-80°	14.6	0.5
80°-90°	3.4	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°	3216.0	100.0
0°-180°	3216.0	100.0

Coefficient of Utilization



REPORT NUMBER: P526095

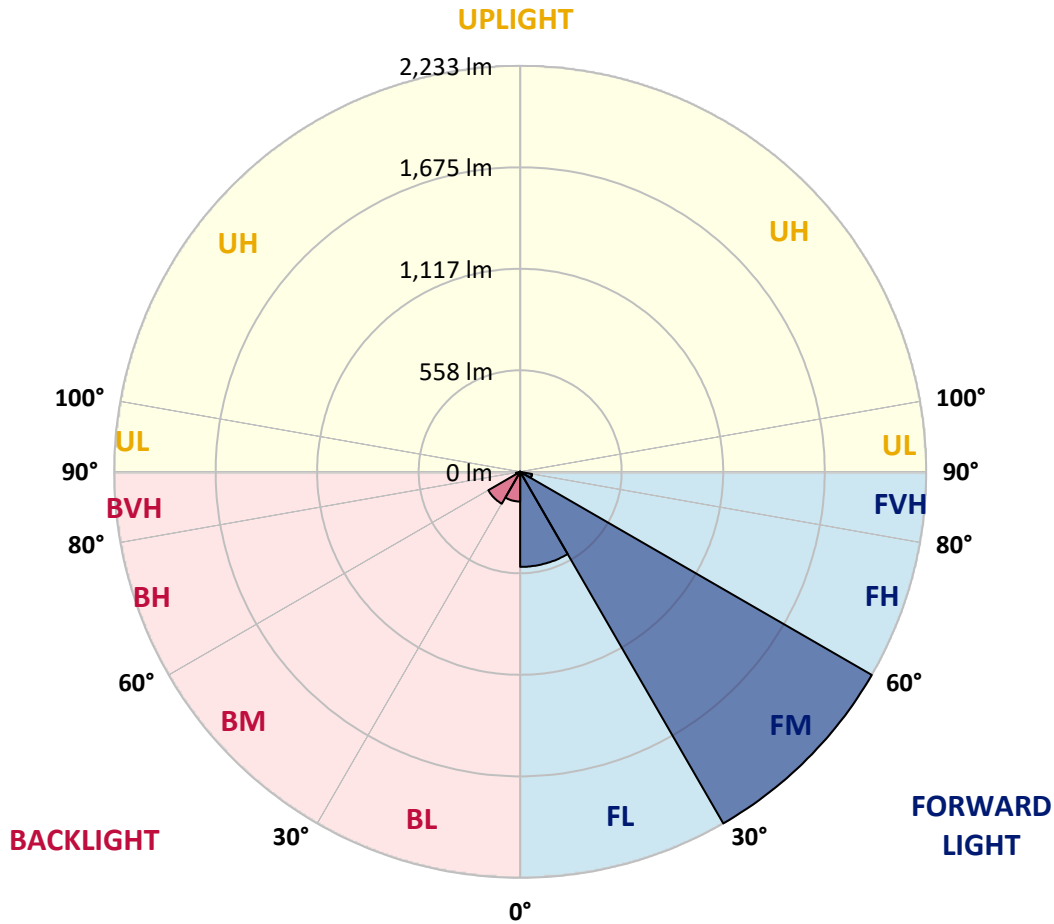
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.9	16.3			
FM (30°-60°)	2233.5	69.4			
FH (60°-80°)	66.5	2.1			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	163.6	5.1	B1/500		
BM (30°-60°)	202.6	6.3	B0/220		
BH (60°-80°)	23.6	0.7	B0/110		G0/110
BVH (80°-90°)	1.8	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: P526095

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	928.7	928.7	928.7	928.7	928.7	928.7	928.7	928.7	928.7	928.7	928.7
2.5°	1125.6	1099.8	1102.2	1085.3	1075.5	1059.5	1038.0	1033.7	1010.3	978.4	946.1
5°	1226.9	1220.8	1228.8	1204.4	1205.3	1179.1	1128.4	1129.4	1075.5	1023.4	973.3
7.5°	1233.5	1219.4	1227.4	1248.9	1261.6	1256.9	1228.3	1203.5	1152.4	1075.9	1002.8
10°	1104.5	1131.3	1139.7	1175.3	1226.0	1279.4	1276.1	1277.5	1234.9	1135.0	1028.1
12.5°	1027.2	1009.4	1038.0	1059.5	1135.9	1239.6	1286.9	1297.2	1300.5	1192.2	1053.4
15°	992.0	992.0	996.7	1002.8	1058.1	1153.8	1250.3	1280.3	1351.1	1267.2	1093.3
17.5°	1014.1	1013.1	1019.7	1007.0	1027.6	1101.3	1216.6	1250.8	1407.9	1340.8	1124.7
20°	1081.1	1084.4	1080.2	1043.6	1045.0	1100.3	1179.1	1233.0	1446.3	1404.6	1166.4
22.5°	1174.4	1176.3	1152.4	1112.5	1100.8	1128.0	1200.6	1241.9	1477.2	1481.0	1179.1
25°	1282.2	1274.7	1270.0	1213.8	1178.1	1201.6	1249.4	1273.3	1496.5	1546.6	1215.2
27.5°	1431.8	1416.8	1388.2	1338.0	1311.8	1278.5	1312.7	1352.1	1551.3	1638.5	1254.6
30°	1652.6	1639.5	1583.7	1519.0	1450.1	1417.2	1428.0	1449.6	1650.2	1744.9	1306.6
32.5°	1985.0	1957.3	1876.7	1753.4	1659.6	1569.1	1566.3	1589.3	1738.8	1892.1	1368.5
35°	2351.1	2342.7	2224.1	2097.0	1915.6	1775.9	1778.2	1790.4	1908.6	2085.3	1449.6
37.5°	2594.4	2640.8	2565.4	2428.9	2276.6	2076.9	2026.2	2030.4	2141.6	2314.1	1595.9
40°	2782.4	2743.1	2752.0	2720.1	2616.0	2480.0	2368.0	2346.0	2411.1	2567.2	1741.2
42.5°	2700.4	2702.3	2757.1	2832.6	2858.4	2848.5	2734.1	2692.4	2641.8	2774.5	1879.5
45°	2468.8	2517.1	2588.3	2788.1	2963.4	3128.0	3105.4	3036.1	2801.2	2938.5	1959.2
47.5°	2099.4	2097.5	2214.2	2473.9	2863.5	3248.9	3351.1	3302.4	2914.2	2920.3	1942.8
48°	1962.9	1996.7	2117.2	2422.8	2800.2	3231.1	3373.1	3311.7	2894.9	2895.9	1928.7
50°	1451.0	1444.9	1594.9	1970.0	2501.1	3036.1	3280.3	3328.1	2894.5	2772.6	1830.3
52.5°	766.5	792.8	902.0	1238.6	1768.4	2484.7	2893.5	2968.1	2792.3	2571.0	1688.7
55°	325.8	294.4	378.3	559.3	994.8	1660.1	2122.8	2288.8	2361.0	2275.2	1477.2
57.5°	116.3	127.0	146.3	210.5	418.2	908.6	1265.8	1394.7	1635.7	1669.5	1006.6
60°	74.5	75.9	82.0	96.6	157.1	350.2	600.6	703.2	812.5	838.7	469.8
62.5°	57.7	58.1	60.9	63.3	74.5	136.0	225.5	267.2	277.5	238.6	123.3
65°	48.3	48.8	49.7	49.7	53.0	63.8	78.8	86.7	84.4	83.4	69.9
67.5°	37.0	38.0	39.8	39.8	41.7	38.9	43.6	46.4	52.5	63.8	59.5
70°	29.1	29.5	30.9	31.9	31.9	28.1	31.4	34.2	38.4	47.4	46.9
72.5°	22.5	23.4	24.4	24.4	23.0	19.2	22.5	24.8	27.7	32.8	31.9
75°	17.3	17.3	17.8	14.5	11.3	9.8	13.6	16.4	20.6	21.6	17.8
77.5°	4.7	5.2	4.7	4.2	4.7	7.0	8.9	10.3	13.1	13.1	11.7
80°	0.0	0.5	1.4	2.8	4.7	6.6	8.0	8.9	10.3	11.3	10.8
82.5°	0.0	0.5	1.4	2.8	4.2	5.2	7.0	7.5	8.4	9.8	9.8
85°	0.0	0.5	0.9	1.9	2.8	3.3	3.3	2.8	2.8	2.3	1.9
87.5°	0.0	0.0	0.5	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.4
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: P526095

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	928.7	928.7	928.7	928.7	928.7	928.7	928.7	928.7	928.7	928.7	928.7
2.5°	933.4	918.9	896.8	862.2	828.9	807.3	786.7	763.7	751.0	750.1	743.1
5°	944.7	911.8	859.3	799.8	736.0	681.2	625.9	589.8	557.4	539.6	536.3
7.5°	950.8	908.1	823.2	723.4	614.6	525.1	463.2	417.7	399.9	386.8	386.3
10°	963.4	901.5	769.3	622.1	487.6	397.1	354.4	333.8	324.0	320.2	314.6
12.5°	972.8	889.3	714.0	518.0	385.4	329.1	310.4	305.7	306.1	308.0	305.7
15°	985.9	878.6	639.5	425.2	323.5	296.3	296.3	297.2	303.8	304.7	304.3
17.5°	985.0	857.5	562.6	350.2	286.0	282.2	283.6	292.5	296.8	298.2	294.9
20°	996.2	837.8	483.4	299.1	264.9	270.5	279.9	282.2	287.4	288.3	284.6
22.5°	993.0	788.6	409.7	258.8	248.9	259.7	269.1	271.9	270.5	267.7	267.2
25°	986.9	746.4	342.2	232.1	237.2	248.9	257.8	252.7	249.9	250.3	250.8
27.5°	976.1	692.9	286.4	213.3	221.3	238.6	238.2	236.3	239.1	236.8	239.1
30°	974.2	639.5	240.5	196.4	209.6	222.2	223.2	226.4	229.7	225.5	229.7
32.5°	977.0	580.9	207.7	186.1	202.5	203.0	213.3	216.6	214.2	204.9	205.8
35°	998.6	535.9	183.8	180.5	191.3	191.7	201.6	197.4	187.1	181.4	184.7
37.5°	1044.1	498.4	172.5	175.3	176.3	182.4	182.8	174.4	175.3	174.9	176.7
40°	1102.2	469.8	164.6	170.6	169.7	173.9	157.1	161.7	166.0	167.4	168.3
42.5°	1142.0	449.1	159.4	163.1	161.3	153.8	144.4	149.1	152.4	157.5	158.5
45°	1159.9	432.7	153.3	150.0	150.0	136.4	132.7	133.6	141.1	146.7	145.8
47.5°	1130.8	416.8	142.5	132.7	136.0	124.7	120.5	120.5	128.5	135.5	134.1
48°	1119.5	410.2	143.0	128.9	131.3	122.8	118.6	117.7	126.6	133.1	133.1
50°	1063.7	385.8	130.8	118.6	113.9	113.0	110.2	111.1	116.7	122.8	122.8
52.5°	955.0	333.3	110.6	101.7	93.3	98.9	100.3	98.5	101.3	106.9	106.4
55°	797.0	256.0	88.6	84.4	77.8	83.9	86.7	84.4	81.6	85.8	85.8
57.5°	510.5	137.8	70.8	71.7	65.2	71.3	73.6	68.0	62.8	66.1	65.6
60°	230.2	82.5	58.1	56.7	52.5	59.5	63.3	56.7	49.7	52.0	54.4
62.5°	86.3	58.6	44.1	43.1	42.2	48.8	50.6	45.5	38.4	39.8	40.3
65°	63.3	51.6	35.2	31.9	33.8	38.4	37.5	32.3	27.7	27.7	28.6
67.5°	53.9	45.0	28.6	24.8	24.8	25.3	23.4	20.6	19.2	20.2	21.1
70°	42.2	35.6	22.5	19.2	17.3	15.5	13.6	13.1	11.7	13.1	12.7
72.5°	27.2	23.9	17.3	14.5	13.1	10.8	8.9	8.4	7.0	6.6	6.6
75°	14.5	14.5	13.6	11.7	10.3	8.4	7.0	5.6	3.8	2.8	2.8
77.5°	10.3	11.3	12.2	11.3	9.4	7.0	5.6	3.8	1.9	0.9	0.9
80°	9.8	11.3	12.2	10.8	9.4	7.0	5.2	2.8	1.4	0.5	0.5
82.5°	8.9	10.3	11.3	9.8	8.4	6.1	4.7	2.8	1.4	0.5	0.5
85°	1.9	2.3	2.8	2.8	3.3	4.2	3.3	2.3	0.9	0.5	0.5
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.5	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

(END OF REPORT)