

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: P648236

Luminaire Tested: **GALN-SA1B-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3529.8 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

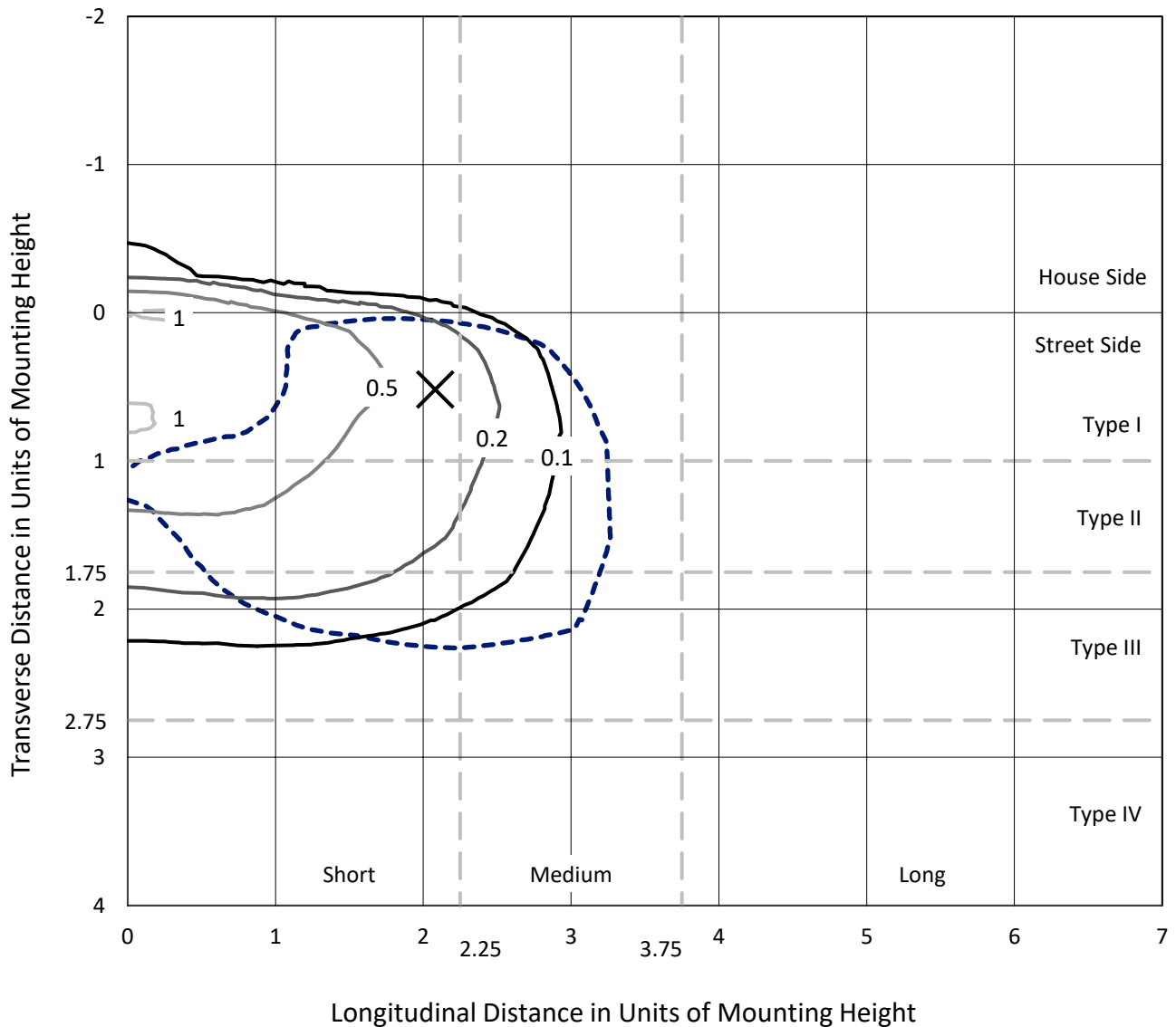
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

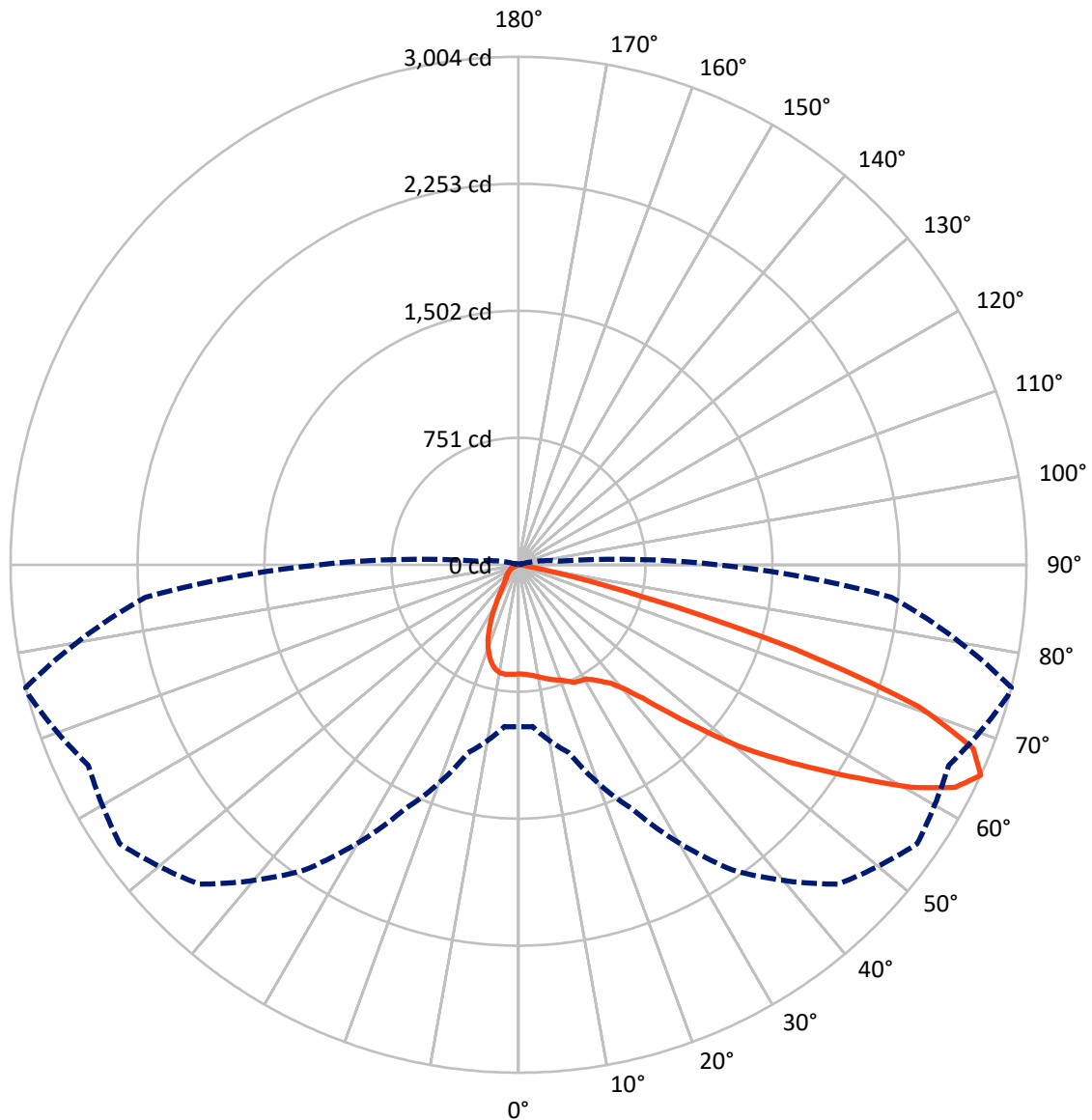
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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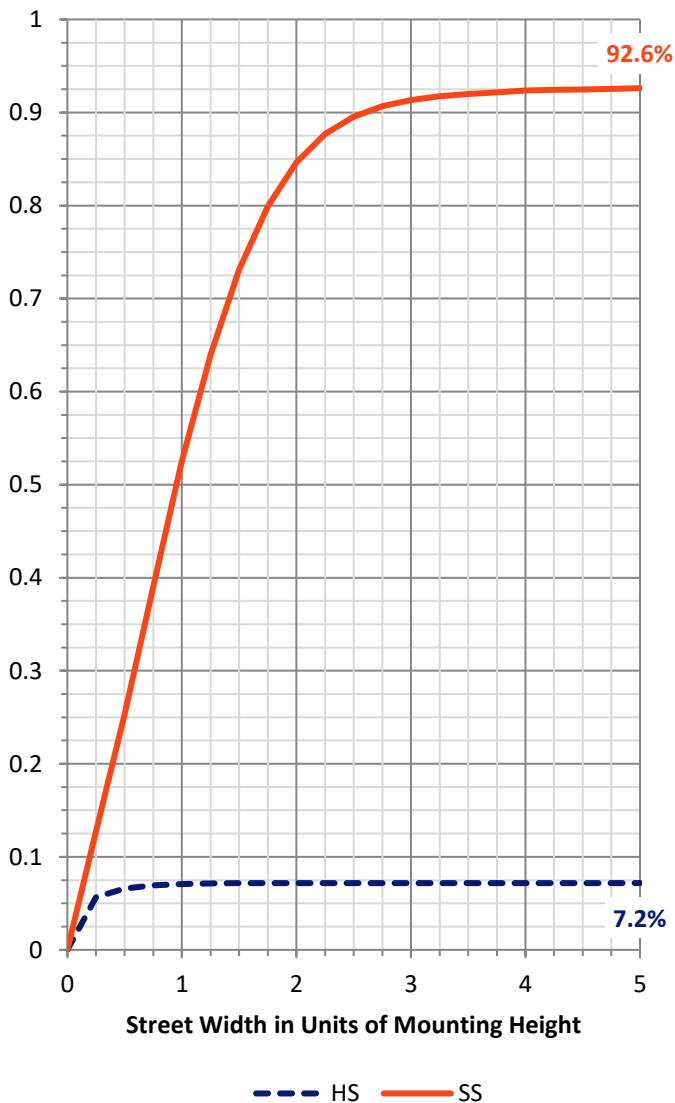
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	254.9	0.0	254.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	3274.8	0.0	3274.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	3529.8	0.0	3529.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.5
10°-20°	118.4	3.4
20°-30°	190.8	5.4
30°-40°	331.8	9.4
40°-50°	548.3	15.5
50°-60°	847.1	24.0
60°-70°	1034.4	29.3
70°-80°	392.6	11.1
80°-90°	13.1	0.4
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°	3529.8	100.0
0°-180°	3529.8	100.0

Coefficient of Utilization



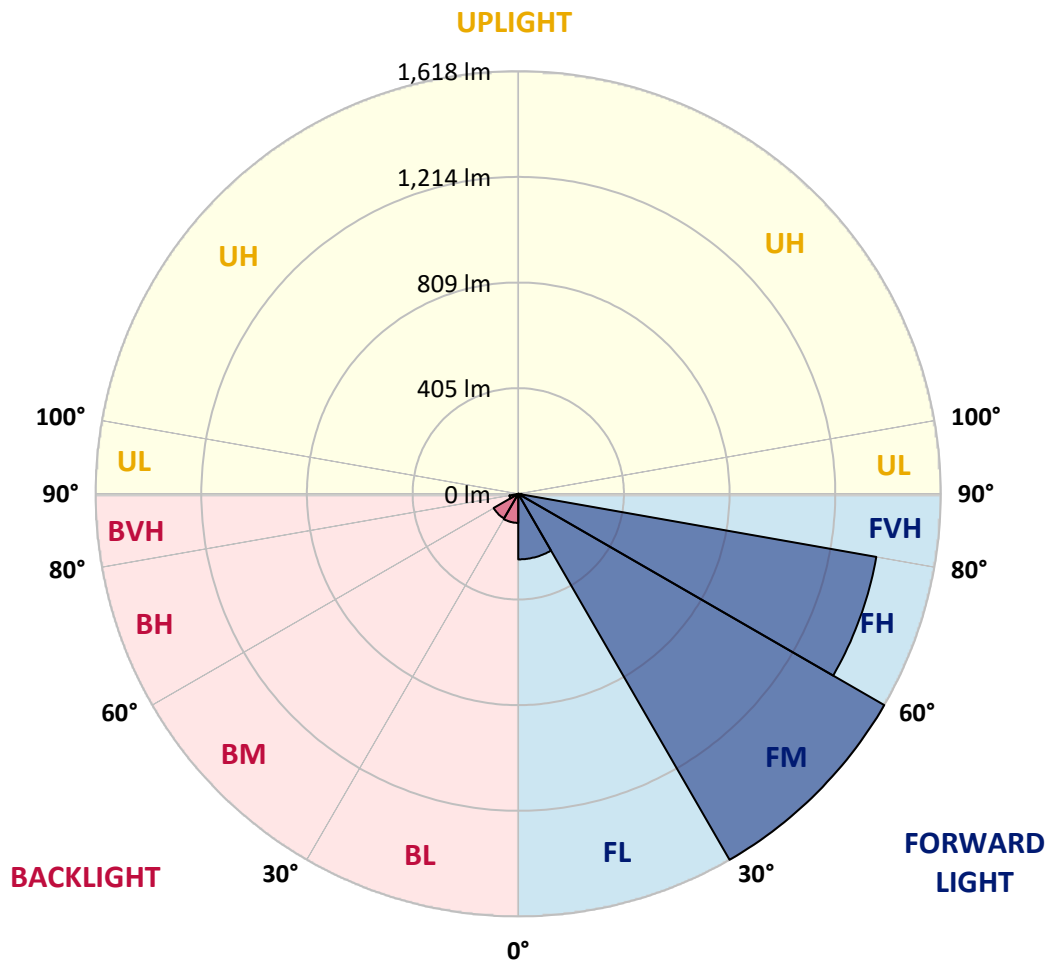
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	251.1	7.1			
FM (30°-60°)	1618.5	45.9			
FH (60°-80°)	1392.4	39.4			G1/1800
FVH (80°-90°)	12.9	0.4			G1/100
BL (0°-30°)	111.4	3.2	B1/500		
BM (30°-60°)	108.8	3.1	B0/220		
BH (60°-80°)	34.6	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	645.7	645.7	645.7	645.7	645.7	645.7	645.7	645.7	645.7	645.7	645.7
2.5°	617.1	617.3	618.8	622.6	628.3	633.0	637.0	643.5	647.9	648.5	650.0
5°	574.4	571.4	574.4	584.1	592.9	606.1	622.3	638.5	652.9	654.0	660.9
7.5°	526.6	529.1	533.8	543.8	560.2	580.4	603.8	632.7	660.1	662.7	676.4
10°	478.0	483.5	491.2	506.4	529.3	555.5	587.4	628.7	671.7	675.1	698.8
12.5°	433.2	435.6	445.1	465.5	493.9	530.8	575.0	626.5	684.3	688.6	722.7
15°	398.7	402.0	410.2	428.6	460.3	507.6	564.7	625.8	696.8	702.7	746.7
17.5°	392.3	394.2	397.8	410.2	437.9	489.2	555.5	625.5	708.8	716.0	768.8
20°	418.9	417.2	413.7	412.4	427.7	475.0	548.7	627.5	720.2	728.4	792.2
22.5°	485.7	488.0	467.5	443.3	438.4	472.8	547.8	637.0	738.4	748.2	818.4
25°	627.5	610.3	578.4	520.6	477.0	486.5	559.0	659.4	759.6	770.3	842.1
27.5°	784.3	779.0	729.4	634.2	553.0	515.4	579.0	676.6	766.6	777.5	855.5
30°	938.3	944.5	887.7	782.5	663.4	568.9	597.6	683.1	772.8	784.3	872.7
32.5°	1081.1	1088.5	1038.7	934.5	793.5	661.6	629.8	708.2	799.0	810.7	901.4
35°	1193.4	1194.5	1156.8	1073.9	935.5	774.3	699.3	752.4	834.4	848.1	931.8
37.5°	1296.6	1295.2	1251.1	1179.5	1053.9	886.2	786.8	803.2	874.8	888.9	975.7
40°	1373.1	1374.2	1359.9	1292.7	1164.3	989.6	856.1	850.8	942.5	964.7	1039.4
42.5°	1424.3	1433.4	1440.4	1406.3	1303.1	1116.9	962.5	952.8	1060.2	1078.6	1129.7
45°	1465.6	1482.1	1517.0	1515.2	1436.5	1273.2	1108.5	1088.5	1226.9	1246.5	1244.6
47.5°	1495.8	1512.4	1570.3	1605.2	1561.8	1424.7	1292.2	1275.0	1426.0	1447.5	1371.4
50°	1511.2	1531.2	1604.9	1672.5	1659.7	1570.8	1501.5	1502.5	1666.5	1687.1	1518.5
52.5°	1475.1	1501.0	1623.4	1745.0	1769.7	1710.6	1697.6	1730.5	1880.5	1898.2	1651.3
55°	1359.7	1392.3	1598.2	1806.8	1897.0	1875.6	1920.4	1970.5	2114.6	2126.0	1787.6
57.5°	1286.7	1321.3	1524.0	1859.4	2050.1	2082.9	2154.0	2190.6	2356.0	2385.2	1944.1
60°	1225.2	1252.3	1462.9	1870.6	2205.6	2336.6	2405.6	2443.5	2654.1	2673.0	2116.3
62.5°	1122.7	1153.8	1359.7	1792.4	2283.8	2539.7	2682.8	2665.8	2884.7	2897.8	2222.0
65°	958.0	960.7	1150.4	1595.7	2203.0	2671.5	2877.4	2806.4	2994.7	3003.7	2213.8
67.5°	715.0	741.4	884.9	1254.3	1860.9	2558.9	2940.5	2810.1	2925.2	2900.3	2038.1
70°	460.6	480.8	599.9	869.8	1341.7	2135.5	2731.3	2617.5	2567.4	2512.0	1668.2
72.5°	212.6	238.5	356.3	496.9	795.8	1521.2	2217.2	2126.5	1847.9	1711.3	1060.4
75°	92.7	99.2	175.9	262.1	373.1	804.5	1461.9	1320.1	834.6	762.3	424.4
77.5°	56.5	60.8	92.2	140.5	146.5	306.5	787.5	575.9	257.9	227.5	115.1
80°	38.4	43.1	67.0	73.5	50.1	85.5	295.6	153.8	52.1	49.9	24.7
82.5°	18.7	23.6	49.6	41.1	21.7	27.4	86.0	32.9	15.2	14.2	8.7
85°	2.7	4.7	27.9	26.9	9.7	6.5	15.2	8.2	5.2	5.0	4.0
87.5°	0.0	0.0	9.5	4.2	1.0	1.0	1.7	1.7	2.0	1.7	2.0
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°	645.7	645.7	645.7	645.7	645.7	645.7	645.7	645.7	645.7	645.7	645.7
2.5°	650.7	651.9	647.2	640.5	633.2	626.0	615.8	606.6	601.1	604.3	596.3
5°	662.4	661.4	649.0	628.5	601.3	568.7	536.3	508.6	499.6	486.2	484.7
7.5°	678.6	675.9	649.4	602.6	541.3	480.0	420.2	380.5	357.8	338.6	339.2
10°	701.3	693.3	643.7	557.0	456.0	363.6	287.4	235.0	212.3	205.1	199.4
12.5°	724.7	709.2	627.7	495.4	355.1	248.4	174.7	142.8	128.8	124.3	123.9
15°	745.7	721.2	599.9	421.4	258.2	158.7	119.1	108.7	106.9	107.2	106.9
17.5°	766.3	730.7	561.3	342.9	175.5	113.9	102.4	99.9	100.7	101.7	101.4
20°	783.5	732.7	511.8	261.7	124.1	99.9	96.2	95.7	96.5	97.2	97.2
22.5°	802.2	734.1	453.3	181.2	101.4	92.9	91.0	91.0	91.9	92.9	93.2
25°	816.2	725.9	383.3	130.1	89.5	86.2	85.3	85.5	86.4	87.0	86.8
27.5°	818.4	702.7	309.1	99.7	81.3	78.0	77.0	78.0	76.7	77.5	77.0
30°	820.4	673.4	233.7	84.0	73.8	68.7	67.3	65.8	64.8	63.6	63.3
32.5°	826.6	638.7	170.7	75.5	66.8	61.3	57.8	53.6	50.3	49.3	49.1
35°	829.4	597.1	125.4	68.7	60.5	54.6	48.3	42.4	37.7	35.9	37.1
37.5°	839.8	556.7	97.2	63.8	55.0	47.6	39.6	32.2	27.6	26.7	27.2
40°	861.3	512.9	81.5	59.6	50.3	41.1	31.4	24.2	21.2	20.2	20.0
42.5°	895.7	469.3	72.5	55.6	45.6	34.6	24.7	18.9	16.4	15.7	15.7
45°	937.6	427.4	66.3	51.4	40.6	27.9	19.4	15.2	13.7	13.2	13.2
47.5°	992.6	390.8	61.1	47.1	35.2	22.2	15.7	13.2	12.2	12.4	12.7
50°	1048.4	363.6	55.4	42.4	28.9	18.2	13.5	11.7	11.4	11.7	11.7
52.5°	1090.6	347.7	47.6	35.9	22.7	15.2	12.0	11.0	10.7	10.2	10.2
55°	1147.3	344.1	37.9	29.1	17.9	12.7	10.7	9.9	9.2	8.7	8.5
57.5°	1220.4	348.1	29.1	22.7	13.9	10.5	9.5	8.2	7.2	6.3	6.3
60°	1265.7	339.2	22.7	17.5	10.2	8.5	7.2	6.0	4.7	4.0	3.8
62.5°	1251.3	301.3	17.9	13.0	7.2	6.3	4.7	4.0	2.7	2.0	1.7
65°	1176.8	243.2	14.5	9.0	5.2	3.8	2.5	2.5	1.3	0.2	0.0
67.5°	1030.0	180.2	11.4	6.0	3.0	1.7	1.3	0.8	0.0	0.0	0.0
70°	838.4	130.1	9.0	3.8	1.7	1.3	0.5	0.2	0.0	0.0	0.0
72.5°	532.3	74.5	7.0	2.3	1.3	0.5	0.0	0.0	0.0	0.0	0.0
75°	205.9	29.1	4.7	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	58.3	13.7	2.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.2	6.0	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.2	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)