

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: P652193

Luminaire Tested: **GALN-SA1B-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3554.9 lumens
Efficiency: N/A
Efficacy: 80.8 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

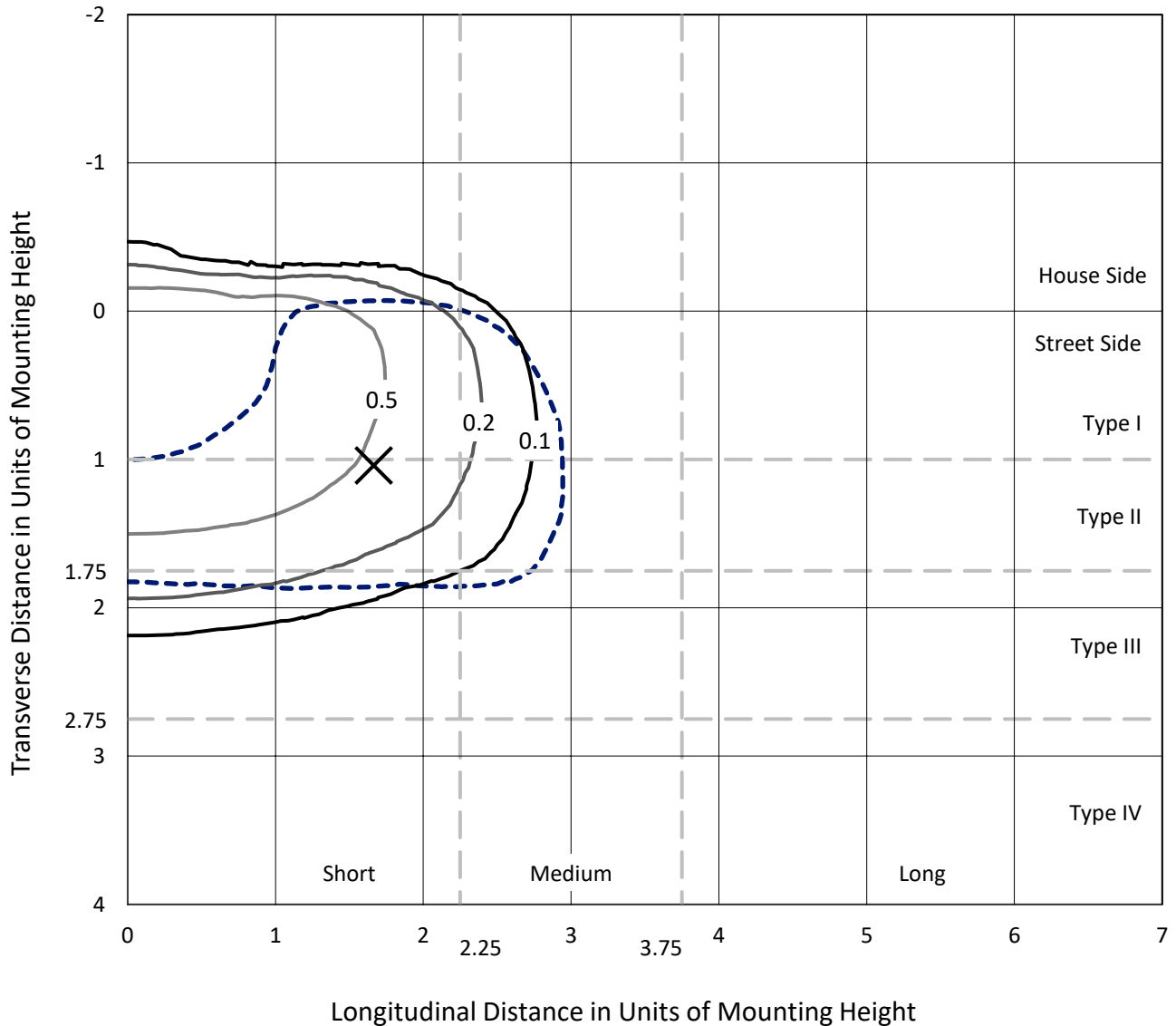
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

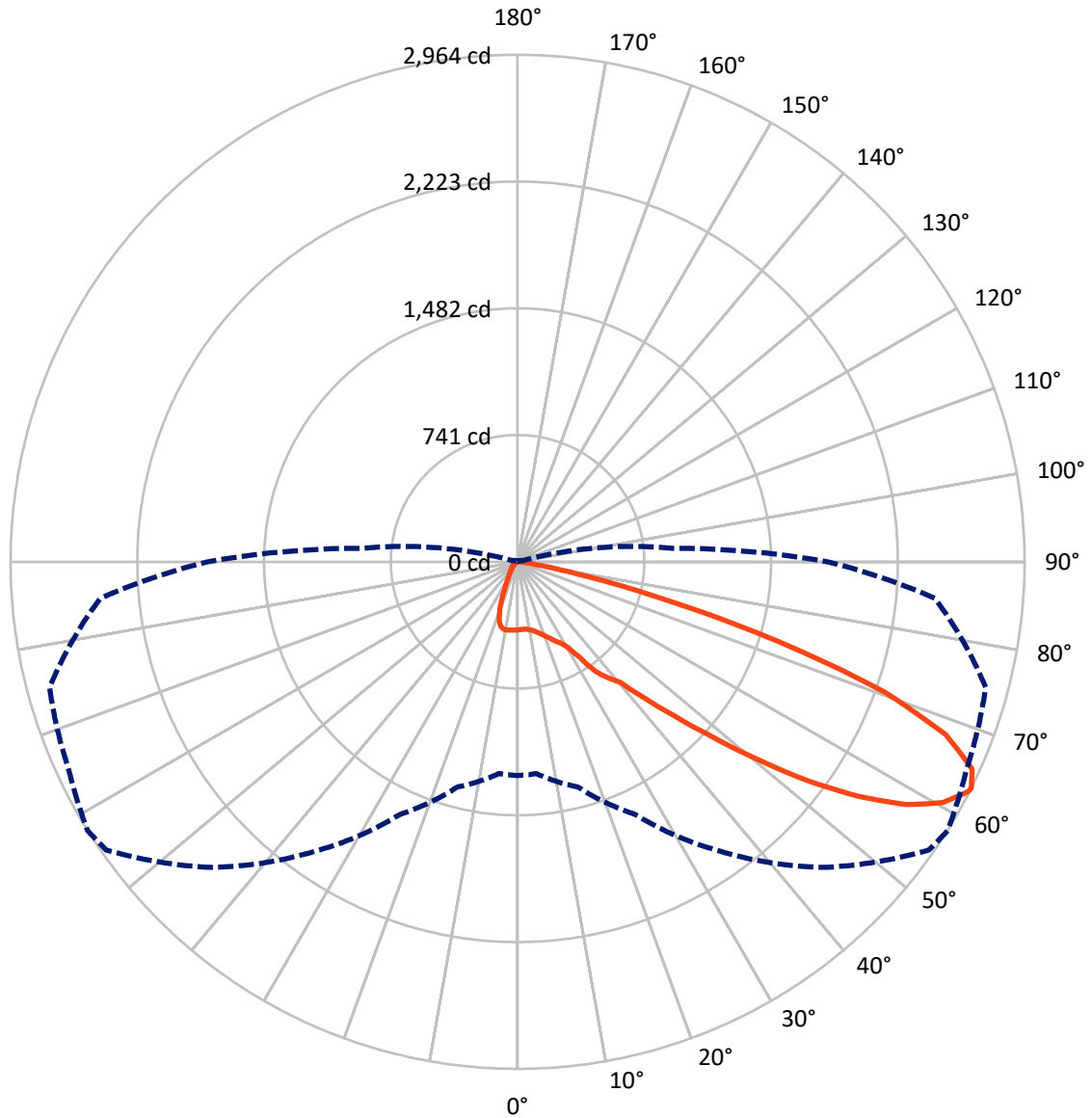
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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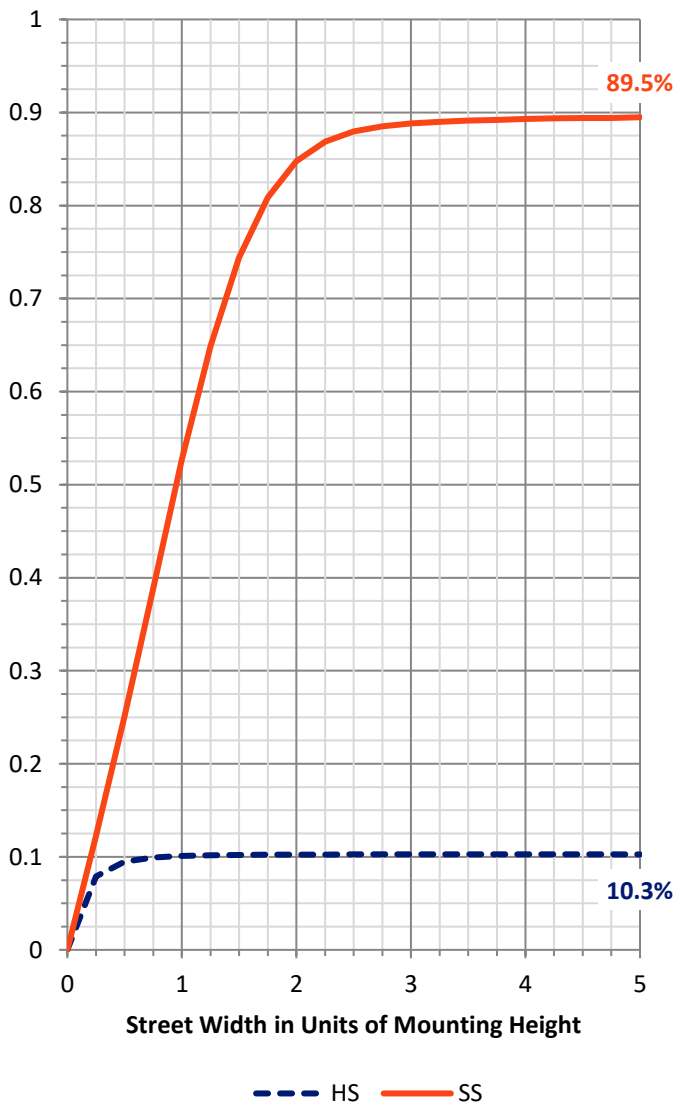
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	368.1	0.0	368.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3186.8	0.0	3186.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	3554.9	0.0	3554.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	1.0
10°-20°	101.5	2.9
20°-30°	176.1	5.0
30°-40°	323.6	9.1
40°-50°	609.2	17.1
50°-60°	1042.0	29.3
60°-70°	997.7	28.1
70°-80°	254.4	7.2
80°-90°	13.0	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°	3554.9	100.0
0°-180°	3554.9	100.0

Coefficient of Utilization



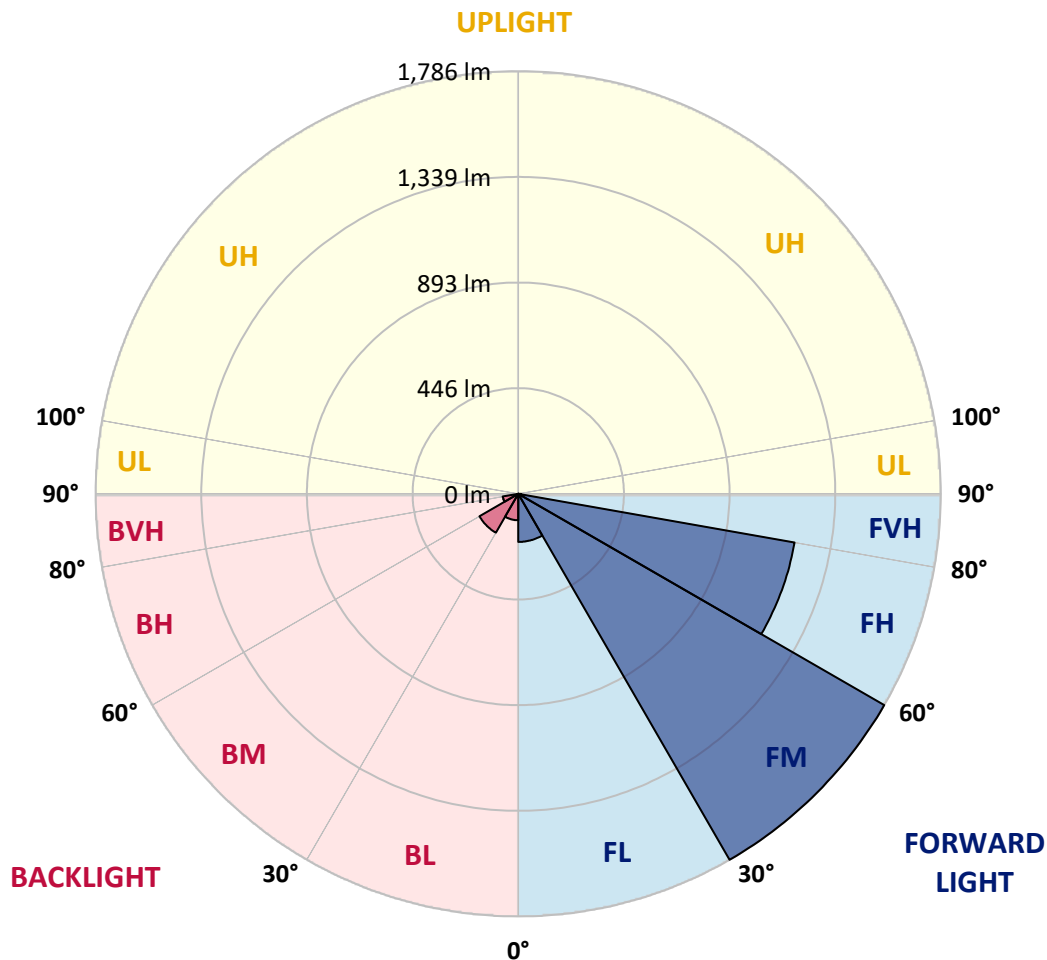
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	203.2	5.7			
FM (30°-60°)	1785.6	50.2			
FH (60°-80°)	1185.5	33.3			G1/1800
FVH (80°-90°)	12.5	0.4			G1/100
BL (0°-30°)	111.6	3.1	B1/500		
BM (30°-60°)	189.3	5.3	B0/220		
BH (60°-80°)	66.6	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	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°	58°	65°	75°	85°
0°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0
2.5°	388.1	389.4	390.7	391.3	393.2	395.0	396.4	396.1	398.2	399.3	399.3
5°	372.6	372.6	376.0	379.3	384.6	390.0	395.0	396.1	400.1	403.8	405.2
7.5°	359.4	360.3	362.9	368.8	376.0	385.4	395.6	398.0	404.9	413.3	416.7
10°	353.3	353.8	357.3	363.5	372.6	385.4	399.6	404.1	414.9	428.0	432.8
12.5°	352.0	352.7	356.2	363.2	373.7	389.1	408.4	413.3	428.7	445.6	452.9
15°	354.4	354.9	358.4	365.8	377.4	395.9	420.2	426.9	445.4	464.9	474.2
17.5°	362.9	362.4	364.8	371.0	383.8	404.1	434.4	442.5	464.1	490.9	497.0
20°	399.3	395.9	393.7	388.4	393.4	416.0	451.5	463.3	490.1	517.4	521.7
22.5°	477.8	470.0	454.7	433.9	417.8	431.9	472.1	485.8	520.3	547.1	547.1
25°	577.6	567.7	552.5	507.0	467.6	458.5	495.4	512.5	553.2	580.3	571.5
27.5°	702.6	694.8	665.1	612.1	551.9	504.8	522.4	538.2	582.4	615.0	596.6
30°	804.2	800.5	776.2	728.8	662.5	593.7	572.7	583.2	621.2	658.9	639.9
32.5°	890.2	890.2	865.3	821.2	759.0	698.0	658.2	665.7	702.1	745.6	710.3
35°	984.6	981.4	961.3	919.4	849.7	796.0	779.6	789.8	822.8	855.1	768.2
37.5°	1084.0	1082.9	1062.0	1021.3	964.6	896.8	858.6	861.3	878.2	897.9	835.9
40°	1191.8	1193.5	1166.1	1141.0	1087.4	1018.1	944.8	928.0	943.7	999.6	960.8
42.5°	1319.2	1315.5	1303.7	1269.4	1226.3	1184.9	1096.8	1090.6	1104.6	1164.5	1122.5
45°	1467.2	1472.6	1452.2	1433.2	1404.3	1369.8	1296.2	1285.5	1300.8	1393.9	1334.2
47.5°	1615.5	1610.4	1623.6	1620.0	1635.6	1609.8	1544.8	1522.9	1559.6	1647.9	1560.1
50°	1728.4	1734.1	1761.4	1801.3	1867.9	1882.3	1820.0	1812.4	1828.8	1885.5	1762.1
52.5°	1801.8	1820.5	1863.3	1965.8	2086.0	2179.5	2132.0	2128.1	2121.3	2136.6	1955.4
55°	1849.7	1868.7	1924.6	2075.6	2282.5	2434.2	2436.6	2419.5	2375.3	2364.4	2136.1
57.5°	1820.3	1824.0	1903.8	2105.5	2391.4	2615.9	2694.6	2677.5	2595.8	2554.4	2295.6
60°	1636.1	1643.9	1754.9	1992.1	2344.0	2675.4	2865.6	2857.9	2768.5	2721.6	2419.7
62.5°	1309.9	1332.3	1446.6	1711.0	2123.8	2575.2	2935.0	2957.0	2887.3	2822.8	2458.8
63°	1249.9	1242.7	1363.3	1629.2	2065.4	2525.8	2936.0	2963.9	2892.7	2832.5	2448.2
65°	925.3	946.9	1025.3	1284.7	1718.8	2295.3	2869.9	2919.2	2872.9	2789.9	2329.6
67.5°	519.5	518.4	605.1	840.7	1203.1	1800.4	2595.1	2699.2	2689.5	2503.6	1931.0
70°	254.2	258.3	293.8	435.7	697.8	1242.2	2156.4	2268.8	2272.3	1966.3	1335.3
72.5°	115.0	117.0	142.4	212.3	358.6	661.4	1486.0	1593.3	1573.5	1253.1	737.4
75°	60.7	64.8	78.4	106.8	172.9	272.7	808.3	912.1	870.6	572.5	271.4
77.5°	45.0	46.3	53.2	68.0	92.6	106.2	348.8	414.9	388.6	207.1	89.9
80°	32.9	34.0	39.6	48.2	58.4	54.1	131.4	150.7	135.1	70.4	27.6
82.5°	20.1	20.4	28.9	35.8	36.7	30.3	43.4	46.6	48.7	39.6	15.0
85°	7.2	9.1	19.5	26.0	21.7	15.2	18.2	20.1	22.0	25.1	8.8
87.5°	0.8	1.1	9.3	12.6	6.1	5.6	6.7	7.5	8.0	9.3	4.3
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°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0
2.5°	400.4	401.5	400.7	399.3	399.1	398.2	396.6	396.6	396.6	397.2	396.6
5°	406.3	407.0	405.2	402.5	399.6	395.9	391.8	389.4	389.1	388.6	387.3
7.5°	417.6	418.6	414.3	407.9	399.9	390.7	382.2	374.2	370.4	367.4	367.4
10°	433.9	434.9	426.4	414.9	398.8	380.3	359.9	341.5	327.1	320.3	318.7
12.5°	453.4	453.9	439.8	419.7	393.2	357.6	314.2	273.8	245.7	232.9	231.5
15°	474.8	471.0	452.3	421.5	377.1	310.7	235.8	186.3	157.1	148.5	151.7
17.5°	496.4	489.5	462.0	418.6	340.9	235.8	158.4	127.2	118.0	115.6	115.6
20°	516.8	507.2	468.9	405.8	278.4	162.5	117.5	110.0	108.4	106.8	107.1
22.5°	537.1	522.4	475.1	377.1	207.4	116.1	105.2	102.8	100.7	98.5	98.2
25°	557.0	536.6	477.4	324.1	141.3	99.8	96.0	92.8	88.6	86.2	85.6
27.5°	577.6	553.7	475.8	257.2	103.0	89.4	85.6	81.1	76.0	71.7	71.7
30°	617.2	586.4	470.3	184.9	86.7	78.7	73.8	66.6	61.1	56.8	56.4
32.5°	671.3	629.0	450.9	130.1	77.1	69.3	62.1	54.1	48.2	45.0	45.0
35°	719.4	671.8	414.9	95.8	69.3	60.2	51.4	43.6	39.1	36.9	36.2
37.5°	792.7	734.4	365.1	77.9	61.8	52.2	43.1	35.8	32.1	30.5	30.5
40°	902.7	811.0	304.0	68.3	54.6	44.4	35.8	30.3	27.3	25.4	25.4
42.5°	1039.2	904.7	242.2	61.3	47.9	38.3	29.9	25.7	23.0	21.7	21.4
45°	1211.1	1003.4	186.5	54.8	42.6	32.6	25.4	21.7	19.0	18.2	18.5
47.5°	1390.4	1090.4	144.6	49.3	36.9	27.6	21.7	18.8	16.8	15.8	15.8
50°	1543.5	1150.3	109.8	42.8	32.6	23.3	19.0	16.8	15.2	14.7	14.5
52.5°	1671.4	1167.7	84.0	37.2	28.7	20.1	16.8	15.2	13.9	13.1	13.1
55°	1780.4	1152.5	65.9	31.3	24.1	17.4	15.0	13.6	12.0	11.3	10.9
57.5°	1844.1	1103.5	50.3	26.0	19.5	14.5	13.1	11.5	9.7	8.3	8.3
60°	1876.2	1032.3	38.5	21.4	15.0	11.5	10.7	8.6	6.7	5.6	5.4
62.5°	1837.7	937.8	29.2	16.8	11.3	8.6	7.2	6.1	4.3	3.2	3.2
63°	1813.8	910.6	28.1	16.1	10.4	8.0	6.7	5.6	3.8	2.9	2.7
65°	1653.5	791.4	23.0	12.9	8.3	5.6	4.5	4.0	2.7	1.3	1.1
67.5°	1313.1	605.4	18.2	9.7	5.9	4.0	2.7	2.4	0.8	0.0	0.0
70°	887.8	391.1	14.2	7.0	4.0	2.4	1.3	1.1	0.3	0.0	0.0
72.5°	463.1	200.5	10.9	5.0	2.4	1.6	0.8	0.3	0.0	0.0	0.0
75°	163.8	68.3	8.0	3.2	1.6	0.8	0.3	0.0	0.0	0.0	0.0
77.5°	49.5	25.4	5.0	2.4	1.1	0.5	0.0	0.0	0.0	0.0	0.0
80°	17.4	9.3	2.9	1.6	0.8	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.6	4.5	1.9	1.3	0.8	0.3	0.0	0.0	0.0	0.0	0.0
85°	4.8	2.9	1.6	1.3	0.8	0.5	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	2.1	1.6	1.3	1.1	0.5	0.3	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)