

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: P450362

Luminaire Tested: **GALN-SA1A-827-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2461 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

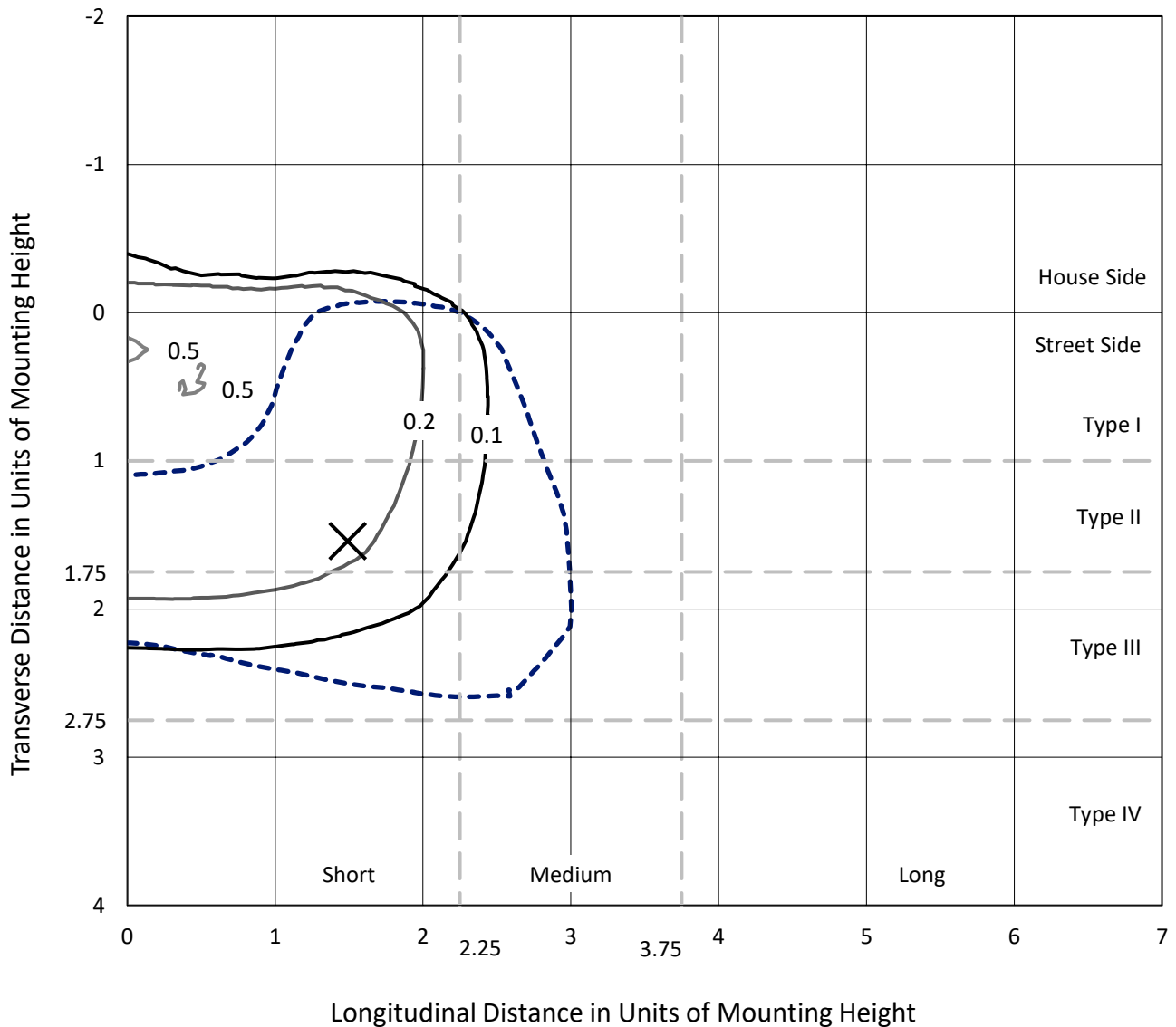
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

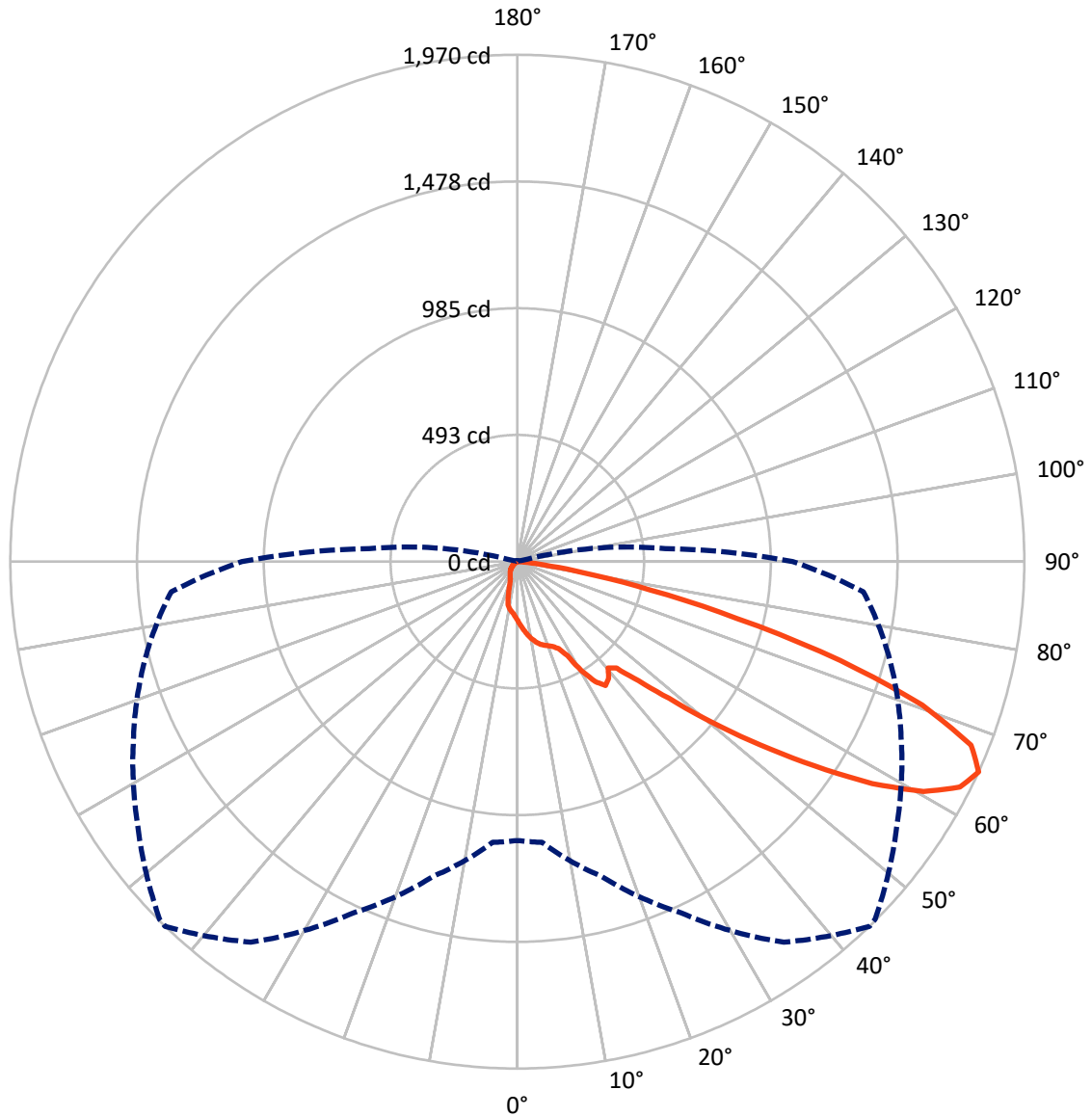
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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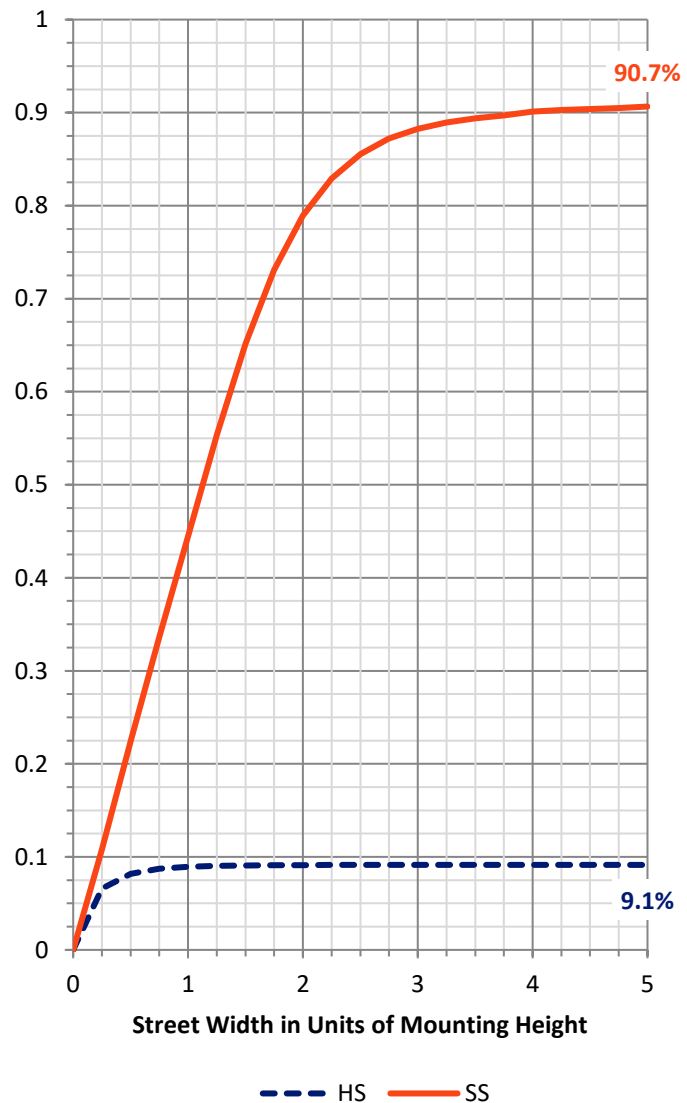
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	226.7	0.0	226.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	2234.3	0.0	2234.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	2461.0	0.0	2461.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.8	0.9
10°-20°	68.6	2.8
20°-30°	116.3	4.7
30°-40°	193.3	7.9
40°-50°	337.5	13.7
50°-60°	659.4	26.8
60°-70°	765.0	31.1
70°-80°	278.6	11.3
80°-90°	19.6	0.8
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°	2461.0	100.0
0°-180°	2461.0	100.0



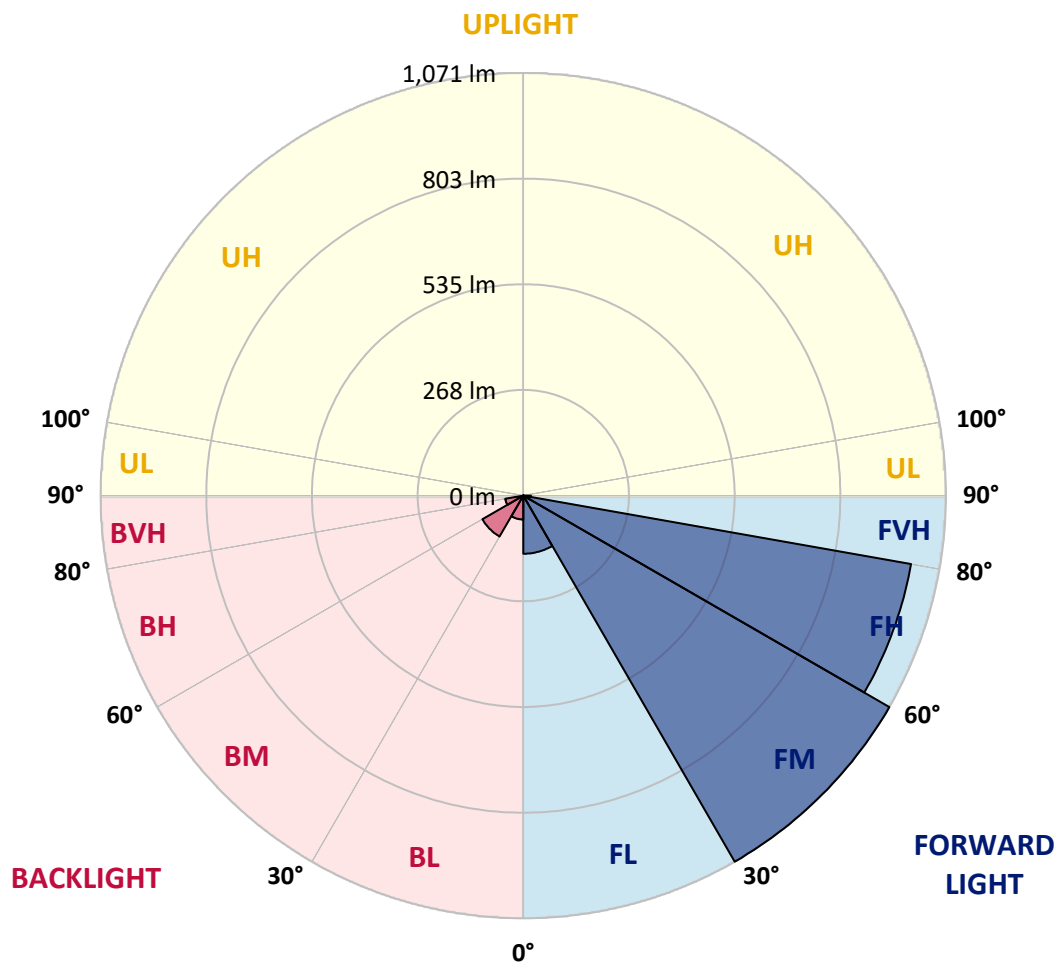
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	147.2	6.0			
FM (30°-60°)	1070.5	43.5			
FH (60°-80°)	997.2	40.5			G1/1800
FVH (80°-90°)	19.4	0.8			G1/100
BL (0°-30°)	60.4	2.5	B0/110		
BM (30°-60°)	119.6	4.9	B0/220		
BH (60°-80°)	46.4	1.9	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	229.0	229.0	229.0	229.0	229.0	229.0	229.0	229.0	229.0	229.0	229.0
2.5°	257.8	256.7	256.1	253.1	250.9	248.0	248.0	244.5	240.3	235.8	231.7
5°	286.6	284.7	282.3	279.6	274.4	266.8	266.8	259.3	250.7	243.0	234.5
7.5°	314.2	312.5	308.4	303.3	294.7	286.8	286.2	275.3	265.0	253.3	241.3
10°	338.5	337.2	333.6	323.8	314.8	304.5	304.3	292.0	280.0	265.7	250.9
12.5°	355.4	355.6	350.9	341.5	329.8	320.1	319.3	307.3	294.7	279.3	261.0
15°	367.5	367.5	362.6	352.0	341.5	332.8	332.1	321.6	308.6	291.9	272.1
17.5°	370.8	372.0	366.7	357.3	348.8	341.3	341.1	332.3	321.9	305.8	283.4
20°	369.5	370.6	366.5	359.2	353.3	349.0	348.5	344.9	335.3	320.1	295.4
22.5°	366.7	367.8	364.8	360.5	357.7	359.0	358.0	361.1	356.0	337.6	309.7
25°	367.3	368.4	366.1	363.7	366.1	374.2	376.7	389.6	385.1	359.7	325.1
27.5°	384.9	387.2	384.0	385.1	393.8	412.6	417.3	439.7	419.7	387.9	349.2
30°	424.2	422.7	416.7	422.2	452.3	492.1	490.8	487.2	456.0	420.5	377.8
32.5°	460.0	458.7	458.3	481.8	536.3	555.7	554.7	520.1	488.6	457.7	406.0
35°	474.5	469.4	468.2	525.2	616.4	590.9	585.0	533.7	528.0	498.3	434.8
37.5°	518.1	514.5	497.0	532.4	584.5	576.0	571.5	557.0	570.2	534.3	467.3
40°	608.0	598.0	582.2	547.6	539.1	542.7	547.2	586.9	620.0	583.3	510.7
42.5°	719.7	717.4	688.1	623.6	560.2	565.1	570.9	649.3	691.7	657.2	581.6
45°	853.8	856.9	814.6	738.5	655.4	659.5	668.0	741.5	788.7	772.1	693.2
47.5°	975.6	973.2	958.9	879.7	803.0	793.8	807.5	859.8	923.0	925.6	831.6
50°	1098.2	1111.2	1089.9	1058.9	1001.9	982.6	977.5	1003.1	1099.3	1086.7	997.8
52.5°	1274.4	1281.2	1241.3	1233.4	1246.4	1183.6	1178.5	1184.7	1270.8	1227.6	1122.3
55°	1385.2	1381.2	1366.4	1428.1	1479.4	1401.0	1394.6	1369.6	1413.2	1327.1	1242.1
57.5°	1420.2	1425.8	1460.4	1571.9	1693.4	1626.8	1615.2	1544.1	1515.9	1419.8	1352.3
60°	1404.6	1414.9	1489.5	1655.4	1823.9	1813.9	1804.0	1684.6	1589.6	1497.3	1429.6
62.5°	1293.4	1307.9	1427.3	1640.6	1868.1	1930.3	1917.9	1772.2	1638.7	1534.9	1443.1
65°	1083.9	1094.6	1266.1	1505.7	1805.3	1970.2	1965.7	1799.6	1646.4	1500.5	1350.4
67.5°	772.7	809.2	968.1	1269.0	1619.5	1902.1	1909.8	1766.7	1574.0	1351.7	1118.3
70°	485.7	510.6	624.5	908.5	1298.3	1668.8	1694.1	1616.1	1366.0	1053.6	748.6
72.5°	231.7	250.1	331.3	575.1	916.4	1313.0	1333.1	1326.7	1056.3	663.8	386.3
75°	103.2	110.2	158.2	293.5	591.6	882.5	934.6	943.3	660.1	324.8	150.3
77.5°	52.7	52.8	74.1	142.2	295.4	526.5	536.9	567.2	357.9	143.1	52.3
80°	28.0	29.9	39.3	67.1	153.3	259.3	258.0	283.6	158.7	70.1	17.5
82.5°	12.6	13.9	22.2	35.2	74.8	98.4	106.1	116.0	68.1	44.8	7.7
85°	3.8	4.5	10.9	17.7	27.1	28.4	31.8	41.0	38.6	31.8	3.9
87.5°	0.6	0.6	4.5	4.9	3.9	5.1	5.3	5.8	12.4	11.7	2.1
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°	229.0	229.0	229.0	229.0	229.0	229.0	229.0	229.0	229.0	229.0	229.0
2.5°	229.4	228.1	223.4	219.5	216.1	214.0	211.6	210.1	209.3	208.7	208.9
5°	230.4	227.2	219.1	212.7	207.8	202.5	199.0	196.9	195.9	194.4	194.4
7.5°	235.6	230.6	219.3	209.5	201.0	193.9	187.1	184.7	183.0	182.6	182.2
10°	243.1	236.8	221.3	207.8	195.8	186.0	176.4	167.9	161.3	157.4	156.8
12.5°	252.6	243.3	224.5	206.7	191.2	173.9	148.6	131.4	120.0	116.4	117.0
15°	261.2	251.2	227.7	205.7	183.0	144.2	115.5	95.9	90.1	89.5	89.7
17.5°	271.5	259.7	231.5	204.4	160.2	110.2	85.8	80.5	81.6	83.5	83.3
20°	282.3	268.7	236.0	196.5	127.9	82.9	75.8	76.3	78.0	79.7	80.1
22.5°	293.7	279.1	241.3	177.5	97.6	72.2	71.8	72.6	74.3	76.2	76.5
25°	309.5	292.0	245.2	152.7	73.9	66.8	67.5	68.8	70.3	72.4	72.8
27.5°	329.8	309.5	247.3	120.4	63.9	61.9	62.1	63.9	65.8	67.7	67.7
30°	356.2	330.4	243.1	91.0	59.0	57.2	56.4	57.5	60.0	61.9	62.1
32.5°	379.7	350.2	232.2	69.6	55.5	52.8	51.0	51.1	52.1	53.2	53.4
35°	403.2	369.3	213.6	58.5	51.7	48.7	45.9	44.4	43.6	43.1	43.6
37.5°	433.3	393.2	188.8	53.2	48.5	44.8	40.8	37.6	35.0	33.3	33.7
40°	472.0	426.3	159.5	49.8	45.5	41.0	35.7	31.6	27.1	25.6	24.8
42.5°	535.9	476.5	128.6	47.0	42.5	37.0	30.5	24.8	20.7	19.2	19.6
45°	636.9	539.9	99.1	44.0	39.5	32.7	25.6	19.6	16.2	15.4	15.8
47.5°	770.8	621.9	76.3	40.6	35.7	28.0	20.1	15.4	13.4	13.2	13.0
50°	896.8	698.2	63.7	36.9	31.2	23.3	16.5	13.0	11.7	11.5	11.5
52.5°	1010.8	753.0	51.9	32.5	26.3	19.2	13.9	11.5	10.3	9.8	9.8
55°	1112.1	788.7	42.1	27.3	20.7	15.2	12.0	10.3	9.0	8.3	8.1
57.5°	1188.7	793.0	31.6	21.8	15.4	11.8	10.3	9.0	7.5	6.6	6.2
60°	1221.4	755.6	23.3	16.5	11.5	9.4	8.3	7.3	5.6	4.7	4.5
62.5°	1188.5	682.8	17.3	12.6	8.8	7.0	5.8	5.5	3.9	2.8	2.6
65°	1070.6	577.7	13.7	9.6	6.6	5.1	3.8	3.6	2.4	1.3	1.1
67.5°	857.7	452.4	10.9	7.1	4.7	3.4	2.4	2.3	1.3	0.4	0.4
70°	557.8	289.2	8.8	5.3	3.0	2.3	1.5	1.1	0.8	0.2	0.0
72.5°	275.9	135.2	7.1	4.1	2.1	1.1	0.6	0.4	0.6	0.0	0.0
75°	107.0	48.1	5.3	2.8	1.1	0.6	0.4	0.0	0.2	0.0	0.0
77.5°	35.5	16.0	3.2	1.5	0.8	0.4	0.0	0.0	0.0	0.0	0.0
80°	13.2	6.2	1.7	0.9	0.4	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	5.3	2.4	1.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	1.5	0.8	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	1.1	0.8	0.6	0.4	0.2	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)