

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: P450242

Luminaire Tested: **GALN-SA1A-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450242
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-SA1A-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA 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: 3299 lumens
Efficiency: N/A
Efficacy: 100.0 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

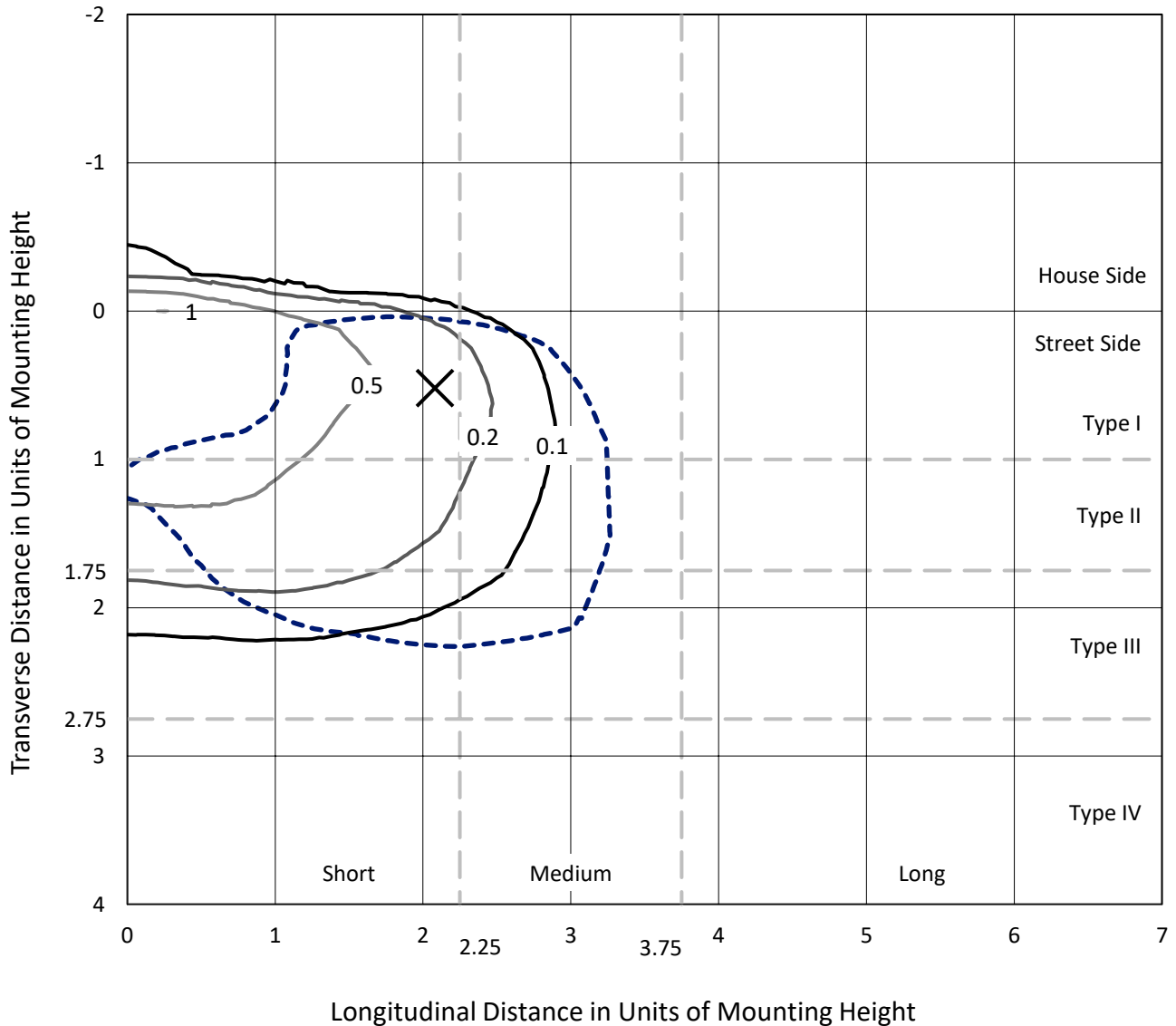
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

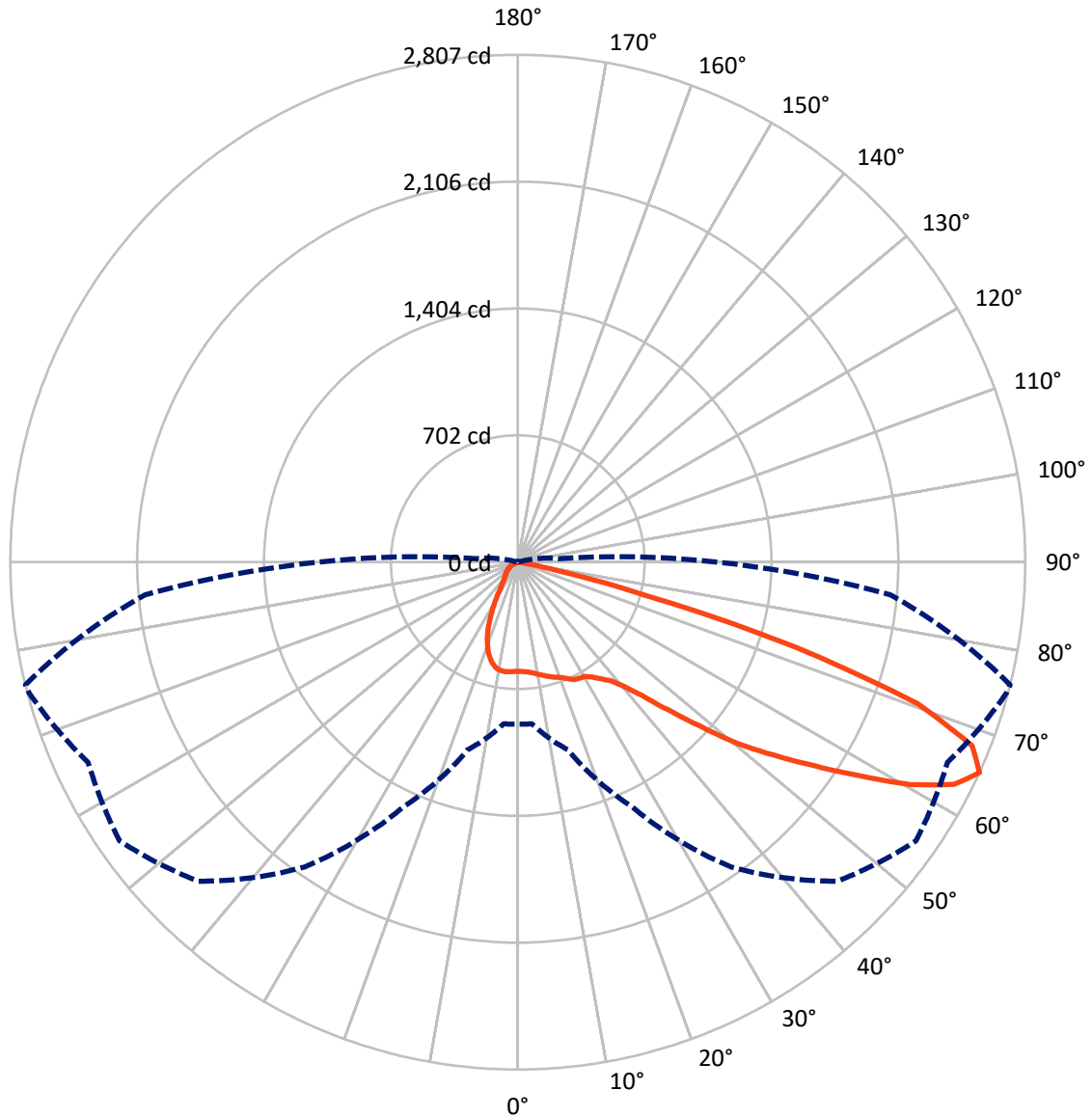
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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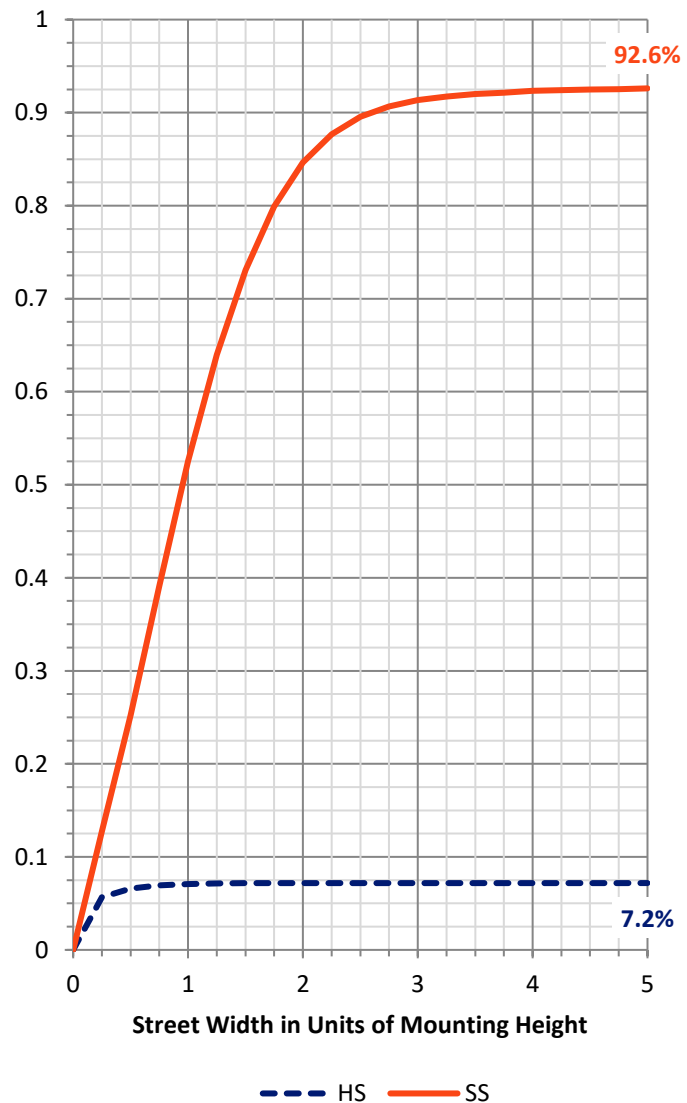
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	238.3	0.0	238.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	3060.8	0.0	3060.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	3299.0	0.0	3299.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	1.5
10°-20°	110.7	3.4
20°-30°	178.4	5.4
30°-40°	310.1	9.4
40°-50°	512.5	15.5
50°-60°	791.7	24.0
60°-70°	966.8	29.3
70°-80°	366.9	11.1
80°-90°	12.2	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°	3299.0	100.0
0°-180°	3299.0	100.0



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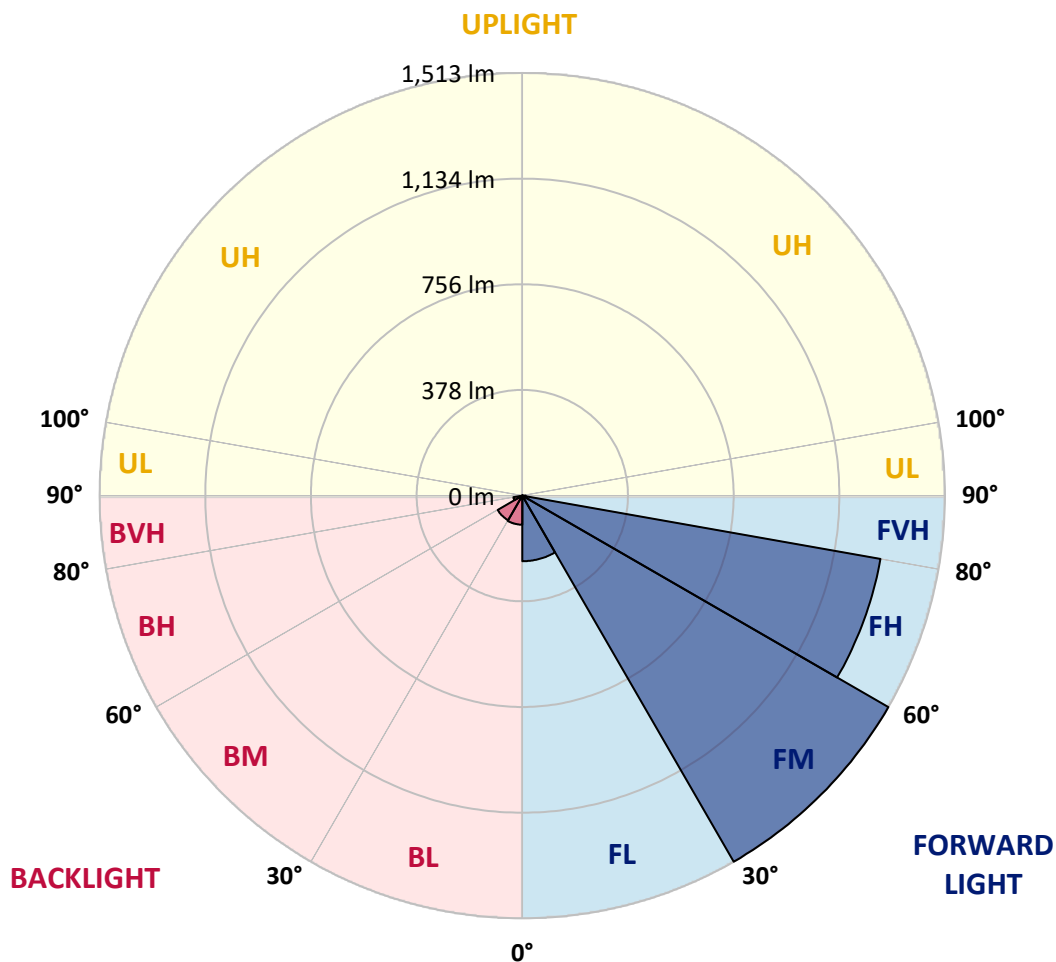
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	234.7	7.1			
FM	(30°-60°)	1512.6	45.9			
FH	(60°-80°)	1301.3	39.4			G1/1800
FVH	(80°-90°)	12.1	0.4			G1/100
BL	(0°-30°)	104.1	3.2	B0/110		
BM	(30°-60°)	101.7	3.1	B0/220		
BH	(60°-80°)	32.3	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: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	603.5	603.5	603.5	603.5	603.5	603.5	603.5	603.5	603.5	603.5	603.5
2.5°	576.7	576.9	578.3	581.8	587.2	591.6	595.3	601.4	605.6	606.1	607.5
5°	536.9	534.1	536.9	546.0	554.1	566.5	581.6	596.7	610.2	611.2	617.7
7.5°	492.2	494.5	498.9	508.2	523.6	542.5	564.4	591.4	617.0	619.3	632.1
10°	446.7	451.9	459.1	473.3	494.7	519.2	549.0	587.7	627.7	631.0	653.1
12.5°	404.8	407.1	416.0	435.1	461.6	496.1	537.3	585.6	639.6	643.6	675.5
15°	372.7	375.7	383.4	400.6	430.2	474.5	527.8	584.9	651.2	656.8	697.8
17.5°	366.6	368.5	371.7	383.4	409.2	457.2	519.2	584.6	662.4	669.2	718.6
20°	391.5	389.9	386.6	385.5	399.7	443.9	512.9	586.5	673.1	680.8	740.4
22.5°	454.0	456.1	437.0	414.4	409.7	441.8	512.0	595.3	690.1	699.2	764.9
25°	586.5	570.4	540.6	486.6	445.8	454.7	522.4	616.3	709.9	720.0	787.0
27.5°	733.0	728.1	681.8	592.8	516.8	481.7	541.1	632.4	716.5	726.7	799.6
30°	876.9	882.8	829.7	731.4	620.0	531.8	558.5	638.4	722.3	733.0	815.7
32.5°	1010.4	1017.4	970.8	873.4	741.6	618.4	588.6	662.0	746.7	757.7	842.5
35°	1115.4	1116.4	1081.2	1003.6	874.4	723.7	653.6	703.2	779.8	792.6	870.9
37.5°	1211.9	1210.5	1169.3	1102.4	985.0	828.3	735.3	750.7	817.5	830.8	911.9
40°	1283.4	1284.3	1271.0	1208.1	1088.2	924.9	800.1	795.2	880.9	901.6	971.5
42.5°	1331.1	1339.7	1346.3	1314.4	1217.9	1043.9	899.5	890.4	990.8	1008.1	1055.8
45°	1369.8	1385.2	1417.8	1416.1	1342.5	1190.0	1036.0	1017.4	1146.7	1165.1	1163.2
47.5°	1398.0	1413.6	1467.6	1500.2	1459.7	1331.6	1207.7	1191.6	1332.8	1352.8	1281.8
50°	1412.4	1431.1	1500.0	1563.1	1551.2	1468.1	1403.3	1404.3	1557.5	1576.9	1419.2
52.5°	1378.6	1402.9	1517.2	1630.9	1654.0	1598.8	1586.6	1617.4	1757.6	1774.1	1543.3
55°	1270.8	1301.3	1493.7	1688.7	1773.0	1752.9	1794.9	1841.7	1976.3	1987.0	1670.7
57.5°	1202.6	1234.9	1424.3	1737.8	1916.0	1946.7	2013.1	2047.4	2202.0	2229.3	1817.0
60°	1145.0	1170.4	1367.2	1748.3	2061.3	2183.8	2248.4	2283.8	2480.6	2498.3	1977.9
62.5°	1049.3	1078.4	1270.8	1675.2	2134.5	2373.7	2507.4	2491.5	2696.0	2708.4	2076.7
65°	895.3	897.9	1075.2	1491.4	2059.0	2496.9	2689.3	2622.9	2799.0	2807.4	2069.0
67.5°	668.2	692.9	827.1	1172.3	1739.2	2391.6	2748.2	2626.4	2734.0	2710.7	1904.8
70°	430.4	449.3	560.6	812.9	1254.0	1995.9	2552.8	2446.3	2399.5	2347.8	1559.2
72.5°	198.7	222.9	333.1	464.4	743.7	1421.7	2072.3	1987.5	1727.1	1599.5	991.1
75°	86.6	92.7	164.4	245.0	348.7	751.9	1366.3	1233.8	780.0	712.5	396.7
77.5°	52.9	56.8	86.2	131.4	137.0	286.5	736.0	538.3	241.1	212.7	107.6
80°	35.9	40.3	62.7	68.7	46.8	79.9	276.2	143.7	48.7	46.6	23.1
82.5°	17.5	22.1	46.4	38.4	20.3	25.6	80.4	30.7	14.2	13.3	8.2
85°	2.6	4.4	26.1	25.2	9.1	6.1	14.2	7.7	4.9	4.7	3.7
87.5°	0.0	0.0	8.9	4.0	0.9	0.9	1.6	1.6	1.9	1.6	1.9
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°	603.5	603.5	603.5	603.5	603.5	603.5	603.5	603.5	603.5	603.5	603.5
2.5°	608.2	609.3	604.9	598.6	591.8	585.1	575.5	566.9	561.8	564.8	557.4
5°	619.1	618.2	606.5	587.4	562.0	531.5	501.2	475.4	467.0	454.4	453.0
7.5°	634.2	631.7	607.0	563.2	505.9	448.6	392.7	355.7	334.5	316.5	317.0
10°	655.4	648.0	601.6	520.6	426.2	339.8	268.6	219.6	198.4	191.7	186.3
12.5°	677.3	662.9	586.7	463.0	331.9	232.2	163.3	133.5	120.4	116.2	115.8
15°	696.9	674.1	560.6	393.9	241.3	148.4	111.3	101.6	99.9	100.2	99.9
17.5°	716.2	682.9	524.5	320.5	164.0	106.4	95.7	93.4	94.1	95.0	94.8
20°	732.3	684.8	478.4	244.6	116.0	93.4	89.9	89.4	90.1	90.8	90.8
22.5°	749.8	686.2	423.7	169.3	94.8	86.9	85.0	85.0	85.9	86.9	87.1
25°	762.8	678.5	358.2	121.6	83.6	80.6	79.7	79.9	80.8	81.3	81.1
27.5°	764.9	656.8	288.8	93.2	75.9	72.9	72.0	72.9	71.7	72.4	72.0
30°	766.8	629.3	218.5	78.5	68.9	64.3	62.9	61.5	60.6	59.4	59.2
32.5°	772.6	597.0	159.5	70.6	62.4	57.3	54.0	50.1	47.0	46.1	45.9
35°	775.2	558.1	117.2	64.3	56.6	51.0	45.2	39.6	35.2	33.5	34.7
37.5°	784.9	520.3	90.8	59.6	51.5	44.5	37.0	30.0	25.9	24.9	25.4
40°	805.0	479.3	76.2	55.7	47.0	38.4	29.3	22.6	19.8	18.9	18.6
42.5°	837.1	438.6	67.8	51.9	42.6	32.4	23.1	17.7	15.4	14.7	14.7
45°	876.2	399.5	62.0	48.0	38.0	26.1	18.2	14.2	12.8	12.3	12.3
47.5°	927.7	365.2	57.1	44.0	32.8	20.7	14.7	12.3	11.4	11.6	11.9
50°	979.9	339.8	51.7	39.6	27.0	17.0	12.6	10.9	10.7	10.9	10.9
52.5°	1019.3	324.9	44.5	33.5	21.2	14.2	11.2	10.2	10.0	9.5	9.5
55°	1072.4	321.7	35.4	27.3	16.8	11.9	10.0	9.3	8.6	8.2	7.9
57.5°	1140.6	325.4	27.3	21.2	13.0	9.8	8.9	7.7	6.8	5.8	5.8
60°	1183.0	317.0	21.2	16.3	9.5	7.9	6.8	5.6	4.4	3.7	3.5
62.5°	1169.5	281.6	16.8	12.1	6.8	5.8	4.4	3.7	2.6	1.9	1.6
65°	1099.8	227.3	13.5	8.4	4.9	3.5	2.3	2.3	1.2	0.2	0.0
67.5°	962.7	168.4	10.7	5.6	2.8	1.6	1.2	0.7	0.0	0.0	0.0
70°	783.5	121.6	8.4	3.5	1.6	1.2	0.5	0.2	0.0	0.0	0.0
72.5°	497.5	69.6	6.5	2.1	1.2	0.5	0.0	0.0	0.0	0.0	0.0
75°	192.4	27.3	4.4	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	54.5	12.8	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.2	5.6	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.8	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	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)