

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: P647730

Luminaire Tested: **GALN-SA1A-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2708.4 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

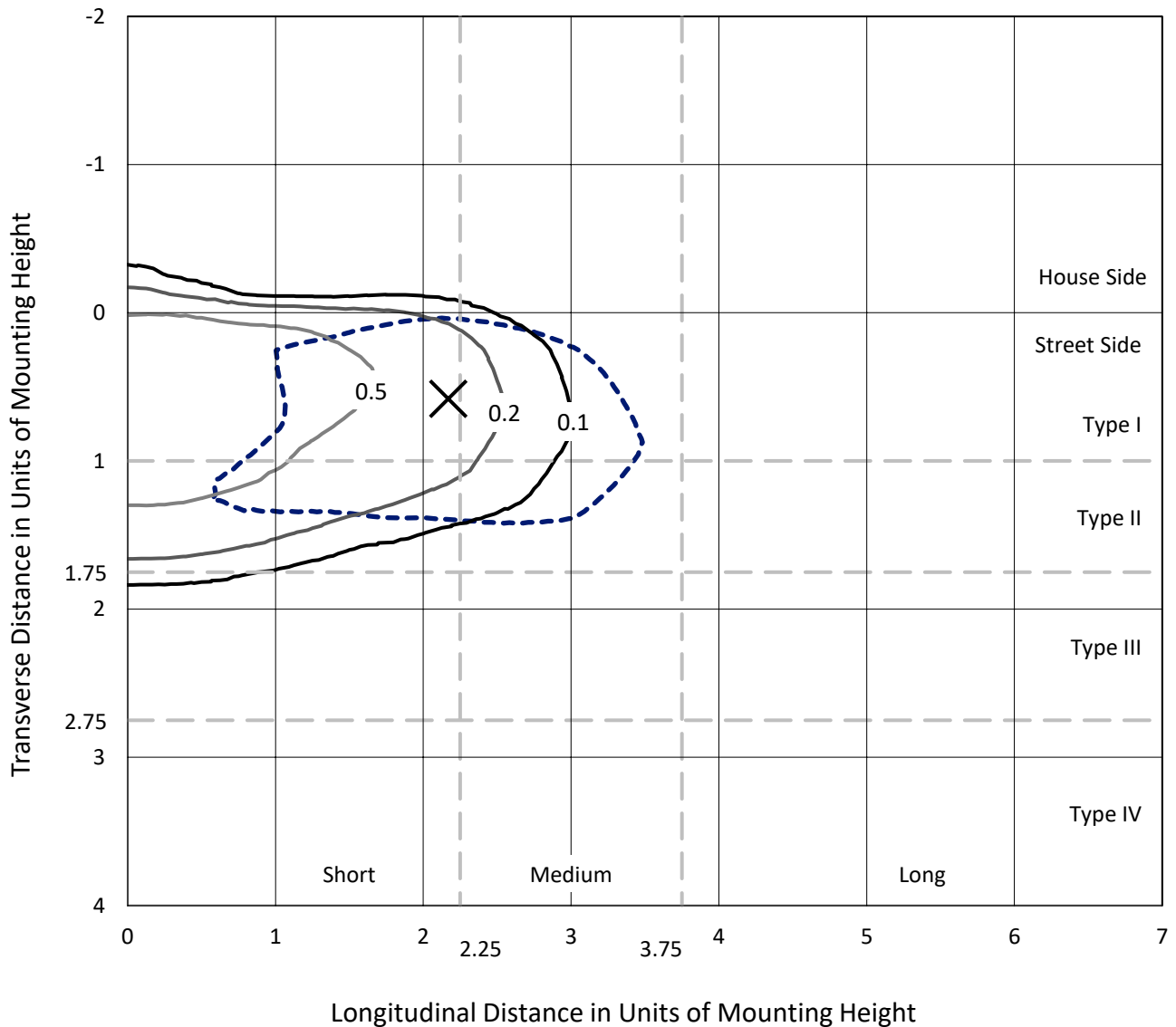
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

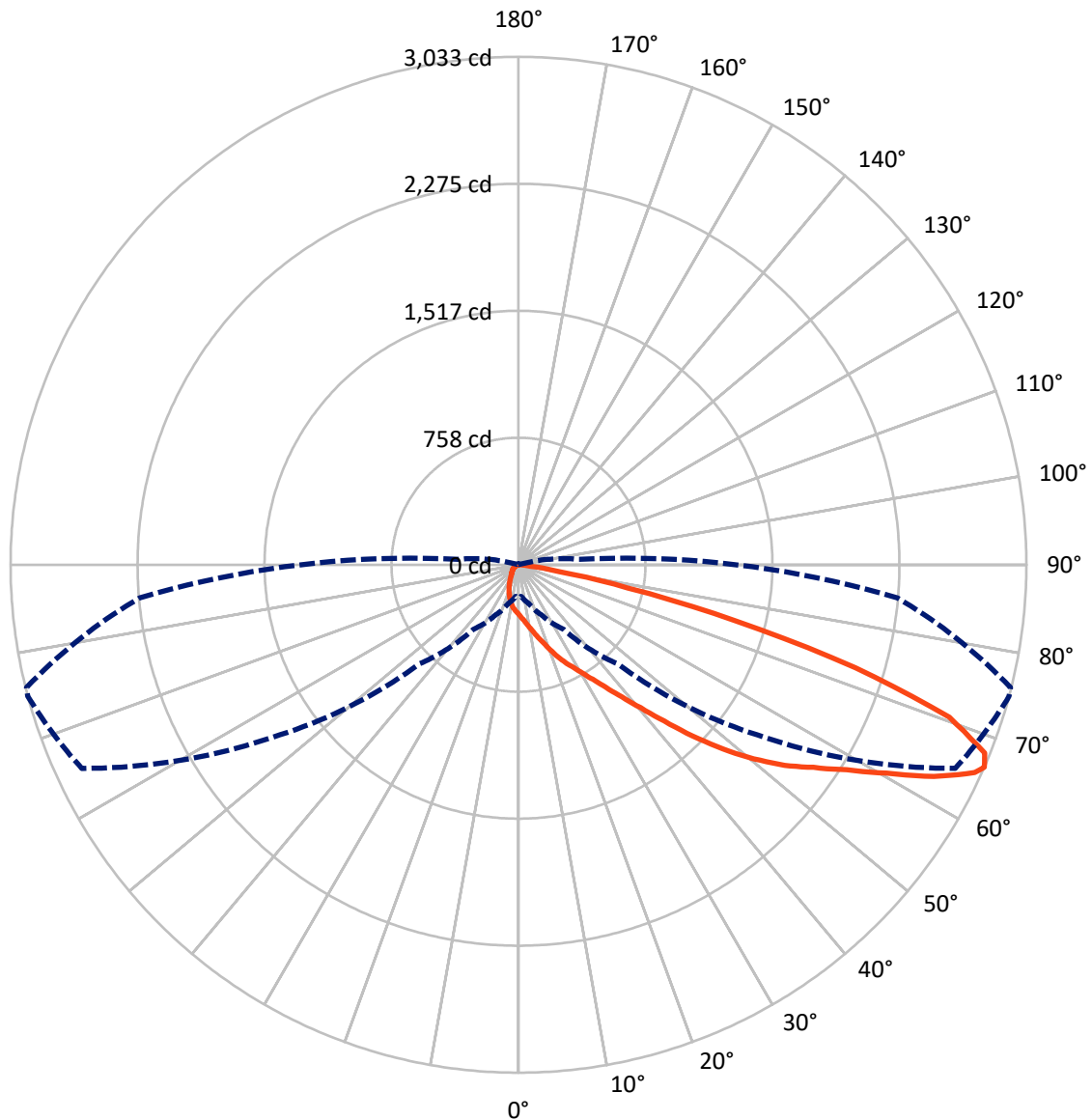
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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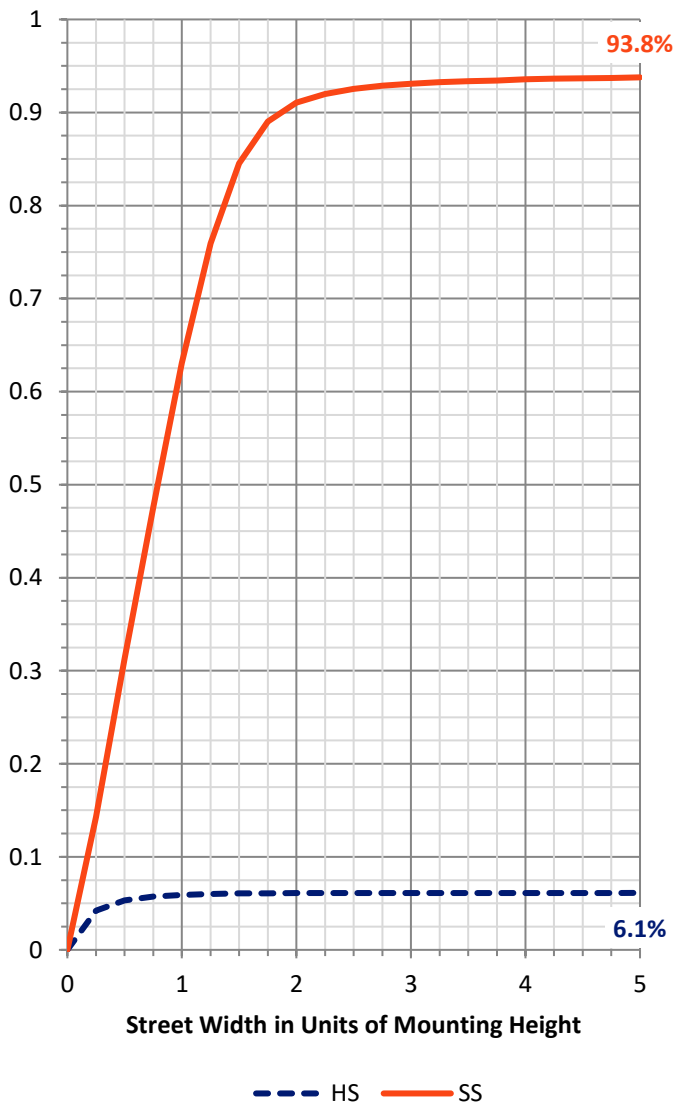
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	167.2	0.0	167.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	2541.2	0.0	2541.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	2708.4	0.0	2708.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.6	1.1
10°-20°	84.1	3.1
20°-30°	145.2	5.4
30°-40°	261.9	9.7
40°-50°	473.1	17.5
50°-60°	737.6	27.2
60°-70°	700.6	25.9
70°-80°	262.6	9.7
80°-90°	14.8	0.5
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°	2708.4	100.0
0°-180°	2708.4	100.0

Coefficient of Utilization

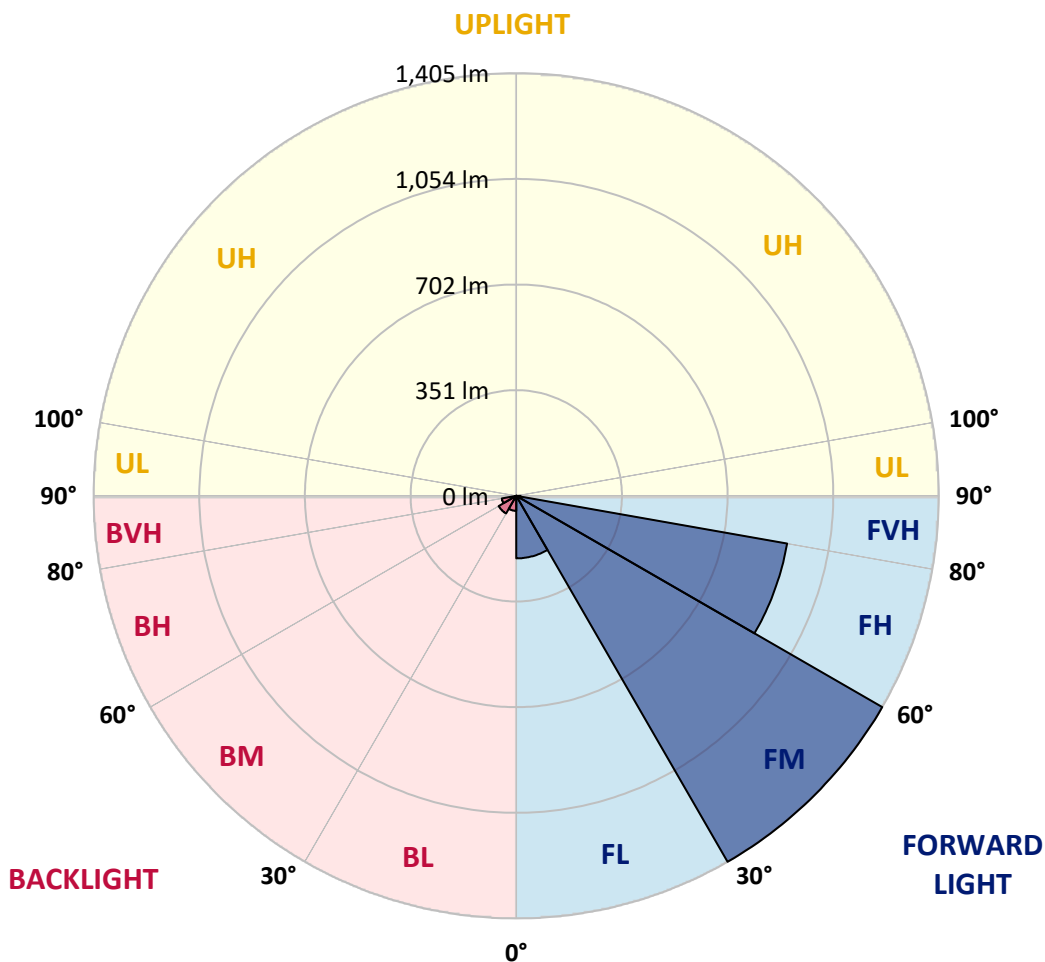


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.9	7.7			
FM (30°-60°)	1404.9	51.9			
FH (60°-80°)	914.4	33.8			G1/1800
FVH (80°-90°)	14.0	0.5			G1/100
BL (0°-30°)	49.9	1.8	B0/110		
BM (30°-60°)	67.7	2.5	B0/220		
BH (60°-80°)	48.8	1.8	B0/110		G0/110
BVH (80°-90°)	0.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	353.8	349.5	350.9	348.8	344.3	337.5	331.4	322.8	314.2	312.8	303.2
5°	400.5	399.3	397.7	391.9	388.7	378.3	365.9	351.1	333.2	330.0	312.6
7.5°	432.4	431.7	432.6	429.6	426.7	417.3	404.1	383.9	356.3	354.5	325.4
10°	442.8	444.4	447.4	452.2	456.6	453.6	443.6	418.4	386.1	380.9	340.1
12.5°	436.8	438.6	445.8	458.6	472.9	481.0	477.0	458.6	417.7	413.6	356.5
15°	421.3	423.5	433.8	453.6	479.0	502.3	512.2	499.1	454.6	447.8	376.3
17.5°	398.5	401.8	416.3	442.6	477.4	517.5	545.8	541.3	493.8	487.4	397.9
20°	381.3	383.7	396.1	426.2	470.6	525.9	577.5	590.0	542.3	531.3	423.4
22.5°	392.8	393.5	397.7	415.8	458.4	528.1	605.6	640.7	593.7	584.0	449.8
25°	448.6	440.6	436.4	432.4	455.8	526.1	631.0	693.5	645.0	634.6	476.1
27.5°	536.7	533.1	511.8	483.4	478.0	528.7	647.9	743.6	693.3	682.1	501.7
30°	632.7	626.4	613.4	571.7	529.9	547.1	660.1	792.2	750.3	735.6	525.1
32.5°	720.8	724.7	705.3	662.5	614.0	586.4	675.9	845.3	815.9	797.5	552.3
35°	823.5	831.5	801.6	760.6	703.9	657.3	706.7	905.2	899.0	875.8	594.4
37.5°	927.9	932.6	914.4	856.8	805.6	747.4	764.8	979.1	1001.3	981.5	644.6
40°	1015.6	1022.1	1008.7	957.5	903.0	851.7	849.1	1059.6	1123.1	1102.6	719.6
42.5°	1082.7	1087.7	1088.1	1051.8	1002.7	979.5	956.7	1162.4	1275.7	1252.0	806.5
45°	1167.4	1174.6	1170.4	1145.7	1109.0	1104.9	1093.1	1286.5	1458.3	1428.5	919.2
47.5°	1298.3	1303.1	1292.7	1263.7	1226.4	1233.0	1226.0	1425.7	1644.5	1618.9	1036.0
50°	1389.2	1397.3	1412.1	1423.7	1396.6	1372.2	1351.4	1555.7	1821.4	1798.4	1155.3
52.5°	1388.3	1401.4	1448.3	1506.8	1565.8	1558.5	1498.6	1699.3	1990.2	1961.8	1267.4
55°	1294.7	1320.4	1389.2	1492.9	1656.6	1738.1	1710.9	1865.4	2136.0	2116.8	1397.4
57.5°	1101.7	1117.3	1213.0	1358.0	1605.9	1822.6	1956.8	2090.8	2310.9	2301.9	1599.3
60°	741.0	748.0	871.2	1050.4	1367.2	1738.3	2137.0	2363.3	2526.1	2521.7	1835.0
62.5°	424.5	427.6	516.9	668.1	972.9	1473.1	2152.2	2699.5	2784.3	2786.7	2107.8
65°	228.5	230.1	302.2	392.1	591.9	1050.0	1935.3	2883.8	2992.9	2997.6	2276.8
66°	197.2	189.6	240.5	334.3	471.1	835.7	1798.2	2877.2	3033.0	3028.0	2270.8
67.5°	150.0	156.8	192.1	256.9	349.1	594.2	1484.6	2749.2	3002.6	2986.9	2178.5
70°	107.3	110.2	136.8	183.2	237.7	326.0	948.7	2283.4	2729.0	2707.9	1897.9
72.5°	69.3	72.3	96.9	132.6	171.8	178.1	531.1	1649.8	2104.0	2100.9	1429.3
75°	49.5	52.3	64.0	94.9	129.2	110.2	255.7	1111.9	1337.6	1328.5	884.2
77.5°	35.9	37.3	42.8	62.1	92.3	78.9	118.5	593.7	665.9	697.3	390.7
80°	20.6	21.8	29.8	37.8	62.5	53.9	56.7	238.3	245.7	233.9	122.1
82.5°	10.2	11.6	17.9	25.8	39.1	36.3	26.0	71.7	75.7	73.7	30.9
85°	2.4	3.0	10.0	17.0	19.0	16.2	12.6	21.1	26.0	25.4	11.8
87.5°	0.2	0.4	3.6	3.0	3.2	5.4	4.4	5.4	8.4	7.8	4.2
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°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	298.8	295.0	284.0	273.2	264.2	254.7	246.1	241.1	239.1	236.9	237.9
5°	303.0	293.8	271.5	252.4	233.5	217.5	204.7	196.5	192.5	191.8	190.8
7.5°	308.6	292.8	258.3	228.3	203.7	185.8	171.2	159.4	155.8	152.6	150.0
10°	315.4	291.0	241.9	203.0	176.8	154.4	135.1	121.1	113.9	112.0	113.4
12.5°	322.6	287.6	224.7	179.9	149.6	121.0	103.1	96.2	94.1	93.3	93.5
15°	329.8	283.4	206.6	157.4	119.2	96.5	88.3	86.5	85.7	85.3	84.9
17.5°	336.5	276.6	186.4	135.6	96.5	82.5	79.5	77.9	76.3	75.7	74.7
20°	344.3	268.7	168.2	111.1	81.7	74.7	71.1	68.1	65.7	64.0	63.9
22.5°	351.6	258.7	149.2	92.2	74.5	67.1	61.3	58.1	55.3	53.2	53.9
25°	355.6	246.5	132.2	80.3	67.9	59.5	53.1	49.1	46.0	45.0	44.9
27.5°	355.6	231.5	115.6	73.5	61.9	52.7	46.0	42.3	40.2	38.8	39.1
30°	352.9	214.9	100.1	68.3	56.7	46.7	40.5	37.0	35.5	34.5	34.2
32.5°	350.6	199.0	86.9	63.3	51.3	41.4	36.0	33.4	31.9	30.9	30.9
35°	354.1	185.4	76.7	58.3	46.3	37.4	32.7	30.2	28.7	27.9	27.6
37.5°	363.1	173.0	68.9	52.9	41.7	34.1	30.2	27.4	25.8	24.8	24.4
40°	385.3	166.0	63.1	47.8	37.3	31.2	27.4	24.8	22.9	21.8	21.6
42.5°	420.9	166.2	57.5	43.2	33.8	28.8	25.1	22.0	19.8	18.8	18.6
45°	474.7	173.8	53.1	38.8	30.9	26.2	22.4	19.3	17.2	16.2	16.2
47.5°	538.9	188.6	49.3	35.1	28.0	23.8	19.8	16.6	14.6	13.8	13.8
50°	608.6	207.9	45.5	31.0	25.6	21.2	17.0	14.4	12.8	12.2	12.2
52.5°	679.7	231.1	41.7	27.9	23.0	18.4	14.6	12.8	11.4	11.0	10.8
55°	773.1	260.7	37.7	24.4	20.2	15.8	13.0	11.2	9.6	9.0	8.8
57.5°	916.6	305.4	33.3	21.5	16.6	13.2	11.2	9.4	7.6	6.6	6.4
60°	1089.9	359.9	28.7	18.8	13.4	10.8	9.0	7.2	5.6	4.4	4.2
62.5°	1252.0	394.6	24.2	15.8	10.6	8.2	6.4	5.4	4.0	2.8	2.6
65°	1323.7	382.9	20.0	12.8	8.4	5.8	4.2	3.8	2.4	1.2	1.0
66°	1299.9	365.7	18.4	11.6	7.6	5.0	3.6	3.2	1.8	0.6	0.6
67.5°	1229.6	325.0	16.1	10.0	6.6	4.0	2.8	2.4	1.0	0.2	0.0
70°	1053.6	262.9	12.6	7.4	4.8	2.8	1.6	1.2	0.6	0.0	0.0
72.5°	809.2	195.8	10.0	5.6	3.4	1.6	0.8	0.4	0.6	0.0	0.0
75°	495.9	112.0	7.8	4.2	2.2	1.0	0.6	0.0	0.6	0.2	0.0
77.5°	220.1	50.3	5.2	2.8	1.6	0.8	0.4	0.0	0.4	0.2	0.0
80°	55.7	16.4	3.0	2.0	1.2	0.6	0.2	0.0	0.4	0.4	0.2
82.5°	15.2	6.0	2.2	1.6	1.0	0.6	0.2	0.0	0.4	0.4	0.4
85°	6.0	2.8	2.0	1.6	1.2	0.6	0.2	0.0	0.4	0.4	0.4
87.5°	2.8	2.0	2.0	1.8	1.4	0.6	0.2	0.0	0.4	0.2	0.4
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)