

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: P647743

Luminaire Tested: **GALN-SA1A-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
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-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3593.2 lumens
Efficiency: N/A
Efficacy: 108.9 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

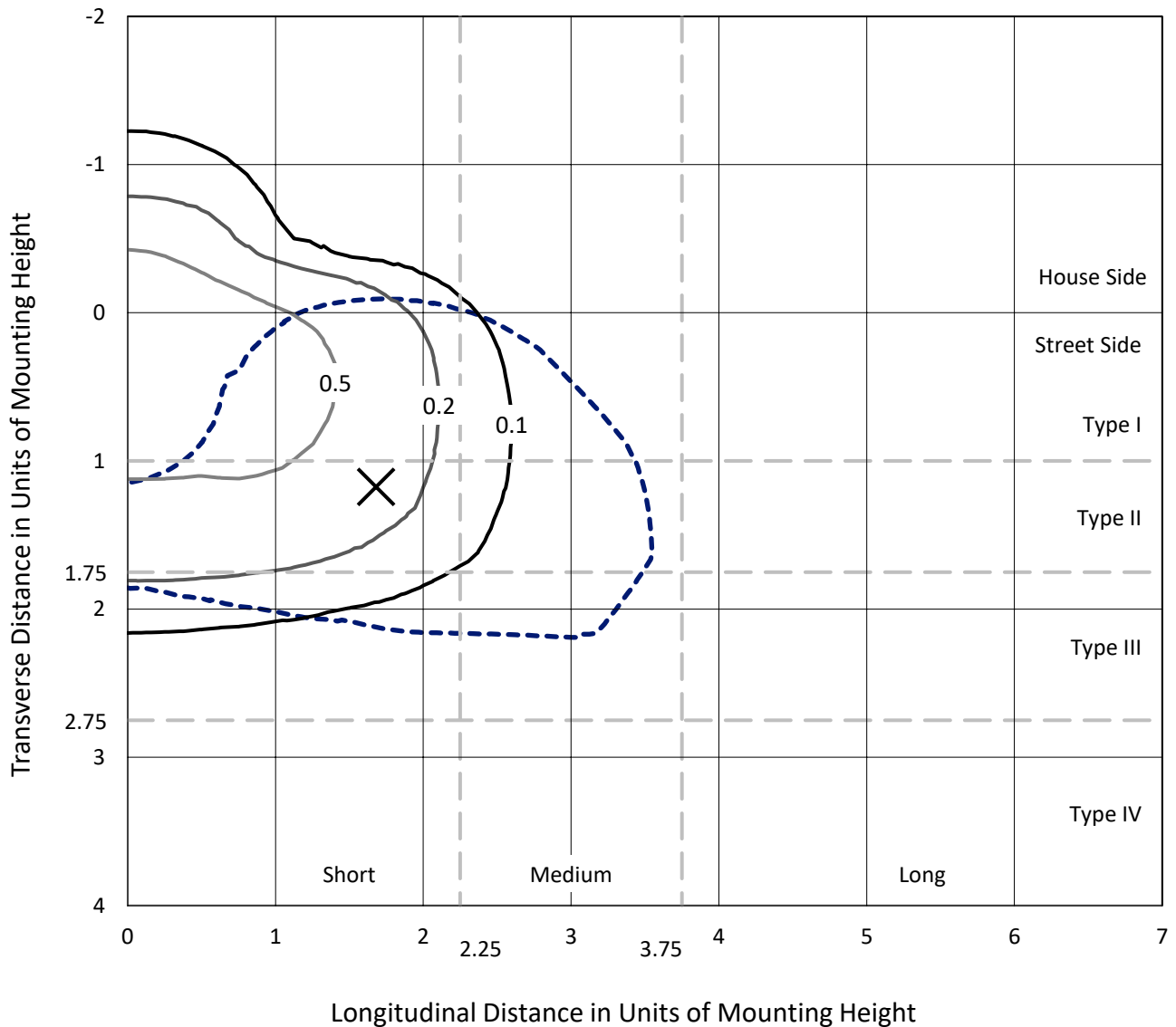
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

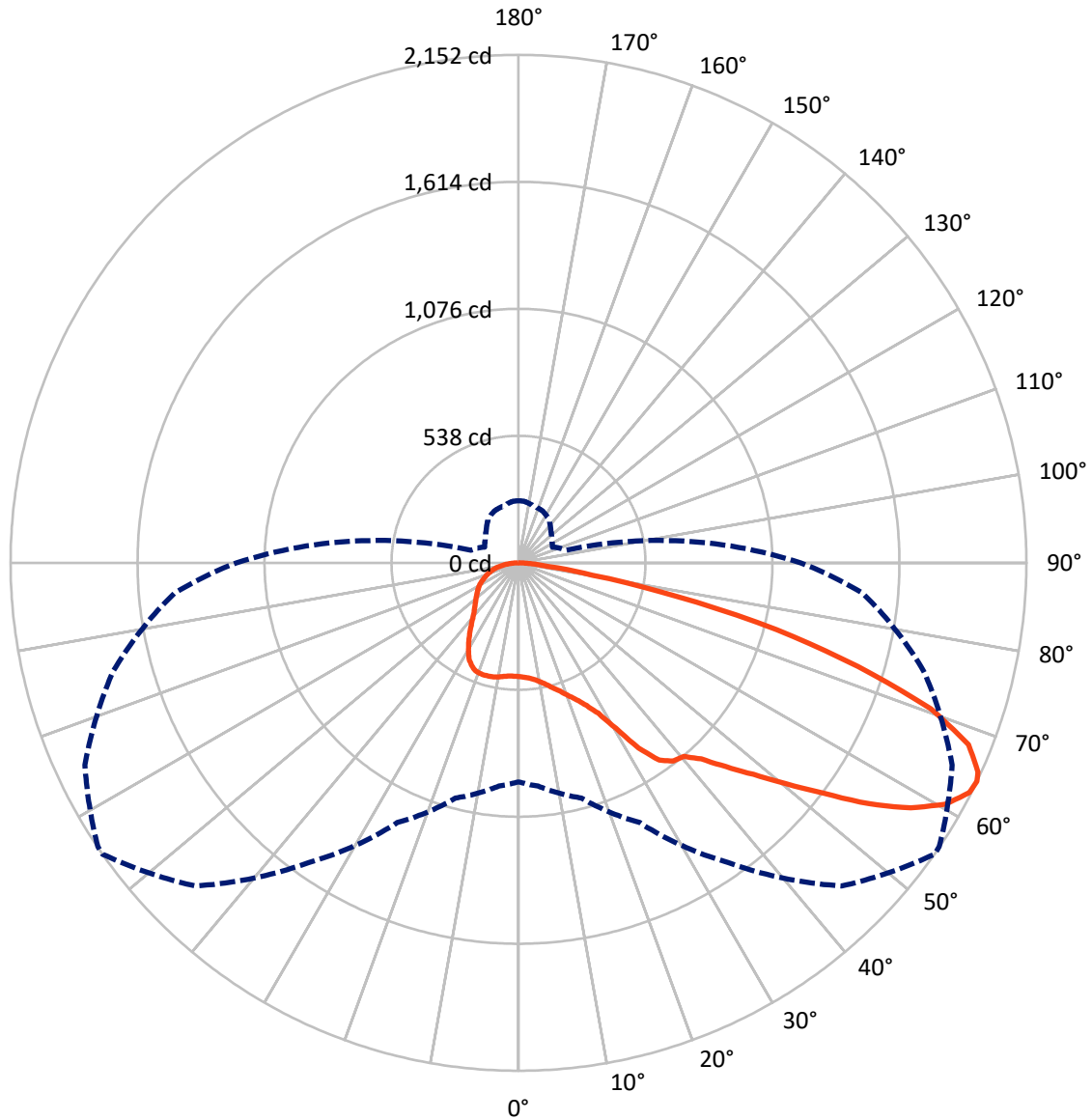
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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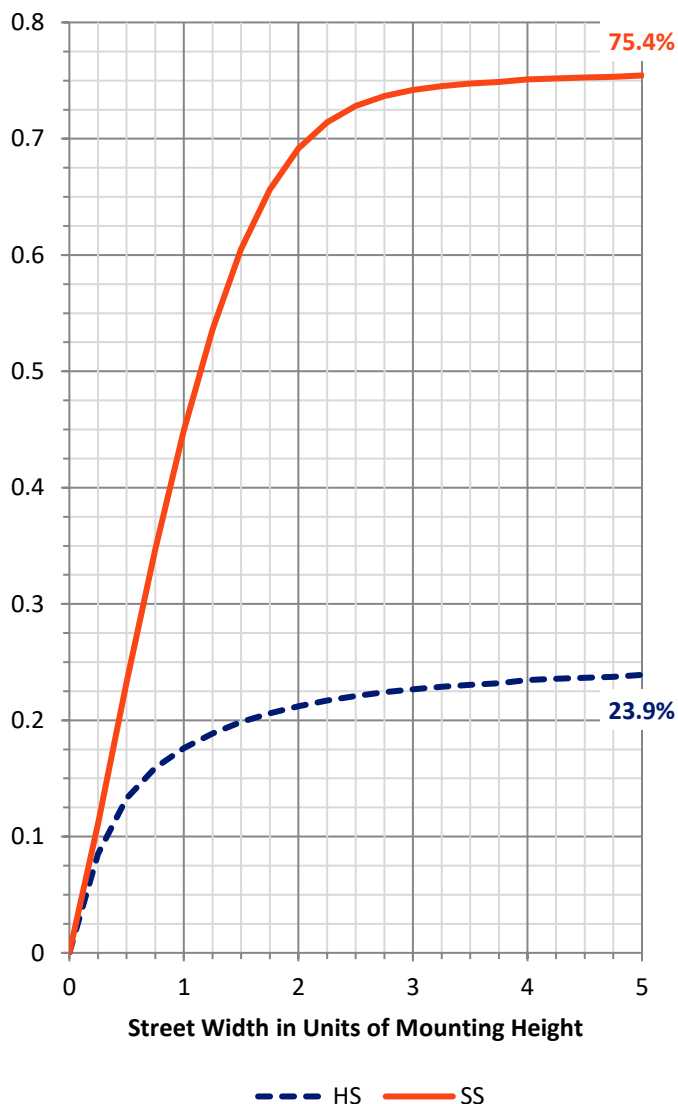
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	872.8	0.0	872.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	2720.3	0.0	2720.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	3593.2	0.0	3593.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	1.3
10°-20°	148.0	4.1
20°-30°	263.4	7.3
30°-40°	405.3	11.3
40°-50°	574.6	16.0
50°-60°	831.7	23.1
60°-70°	860.7	24.0
70°-80°	403.1	11.2
80°-90°	59.7	1.7
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°	3593.2	100.0
0°-180°	3593.2	100.0

Coefficient of Utilization



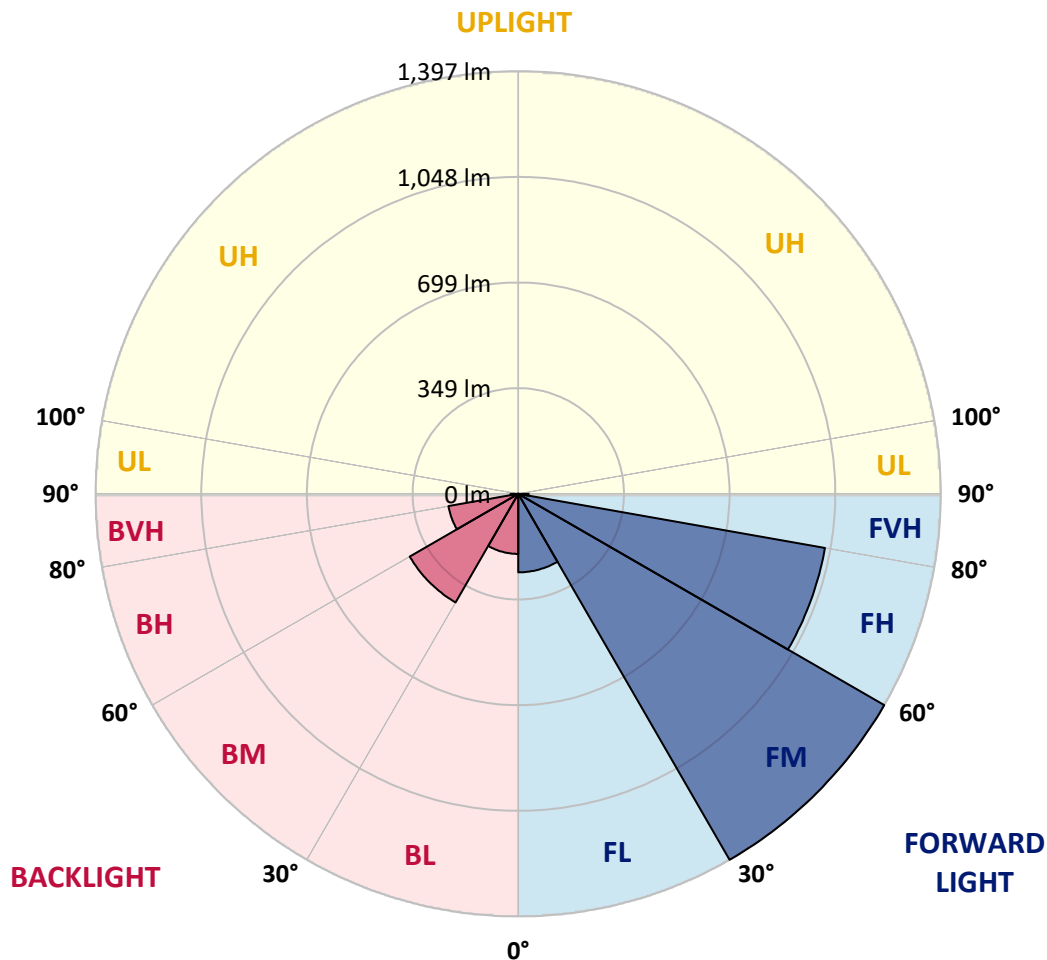
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	259.5	7.2			
FM (30°-60°)	1397.1	38.9			
FH (60°-80°)	1029.6	28.7			G1/1800
FVH (80°-90°)	34.2	1.0			G1/100
BL (0°-30°)	198.8	5.5	B1/500		
BM (30°-60°)	414.4	11.5	B1/1000		
BH (60°-80°)	234.2	6.5	B1/500		G1/500
BVH (80°-90°)	25.5	0.7			G1/100
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°	56°	65°	75°	85°
0°	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1
2.5°	487.5	487.3	487.9	487.3	487.7	486.3	485.7	486.1	485.5	484.5	482.7
5°	493.5	493.3	493.5	492.7	493.1	492.4	490.9	491.3	490.3	488.1	485.5
7.5°	503.7	502.9	502.9	502.8	501.9	500.7	499.7	499.3	498.3	495.5	491.5
10°	516.9	516.9	517.2	515.5	516.5	514.4	513.3	513.2	509.7	506.1	500.5
12.5°	534.4	535.3	534.8	534.0	533.5	532.8	529.4	530.2	526.3	520.1	513.3
15°	556.0	557.6	556.6	556.2	555.2	552.2	550.8	550.2	545.2	536.2	527.2
17.5°	584.7	582.6	581.8	580.8	576.6	574.4	572.1	571.6	567.2	556.6	542.6
20°	609.6	612.5	610.9	609.9	605.7	601.5	599.7	599.1	595.2	583.6	561.2
22.5°	639.6	640.1	640.7	638.3	636.3	633.1	629.9	628.9	627.5	615.5	588.0
25°	671.3	673.8	671.7	669.4	667.0	666.8	669.8	669.4	668.8	657.2	623.7
27.5°	723.3	725.4	726.1	723.4	714.3	715.0	721.8	724.0	733.3	714.0	669.5
30°	752.5	754.7	759.7	769.5	784.1	796.9	813.4	818.4	827.2	790.9	724.0
32.5°	770.6	771.3	780.3	798.6	842.4	890.3	935.0	936.8	942.3	891.5	773.9
35°	799.0	799.5	806.8	826.8	878.3	958.0	1027.1	1029.3	1024.7	922.8	797.2
37.5°	834.0	835.6	840.2	856.8	918.3	1014.7	1065.3	1063.7	1022.9	947.6	838.2
40°	885.1	885.1	879.7	902.1	960.6	1047.1	1078.7	1075.9	1065.1	1019.5	900.7
42.5°	930.1	929.3	942.2	957.4	1013.4	1097.2	1135.0	1139.7	1157.5	1109.8	971.8
45°	988.9	992.5	999.7	1027.3	1103.4	1182.7	1231.6	1236.0	1261.3	1216.2	1054.9
47.5°	1048.1	1049.3	1071.9	1108.8	1214.7	1298.7	1338.8	1346.0	1369.0	1340.6	1144.4
50°	1090.2	1101.6	1137.9	1196.0	1329.5	1440.1	1471.3	1479.9	1520.6	1476.0	1248.8
52.5°	1134.6	1145.8	1190.2	1278.6	1461.3	1584.7	1623.2	1629.0	1671.2	1612.9	1355.5
55°	1172.7	1183.1	1233.4	1351.9	1566.2	1732.3	1802.0	1795.2	1815.5	1718.5	1437.9
57.5°	1178.9	1187.3	1250.6	1398.8	1645.2	1858.9	1958.8	1962.8	1939.4	1797.4	1505.8
60°	1130.8	1148.0	1220.8	1393.8	1680.6	1947.0	2075.8	2078.6	2012.1	1837.9	1532.8
62.5°	1045.7	1043.9	1131.8	1313.3	1631.0	1967.1	2144.7	2141.7	2040.6	1818.4	1506.6
64°	928.2	949.8	1031.9	1214.4	1550.8	1936.2	2151.9	2150.3	2027.0	1778.0	1461.9
65°	856.4	855.3	936.4	1133.5	1471.1	1889.8	2139.1	2136.9	1998.5	1741.7	1427.3
67.5°	618.3	621.1	701.2	874.7	1196.0	1708.0	2055.6	2047.4	1886.3	1621.5	1295.5
70°	374.5	376.2	439.0	580.2	858.4	1380.8	1852.9	1853.3	1714.7	1442.1	1102.6
72.5°	197.3	201.5	226.8	329.5	521.3	968.8	1503.2	1538.8	1472.1	1230.8	871.1
75°	109.8	110.3	128.2	162.5	266.0	542.1	1129.9	1140.0	1165.5	990.7	644.1
77.5°	83.7	85.0	90.5	104.9	144.8	251.3	683.8	735.1	821.4	698.4	367.5
80°	67.9	69.1	73.9	82.5	96.3	119.2	317.7	345.3	439.7	310.1	143.4
82.5°	52.9	52.1	58.3	63.9	70.1	70.5	130.4	144.2	179.1	133.4	62.1
85°	39.2	39.2	44.2	43.1	45.3	41.3	57.5	63.5	71.7	56.7	28.8
87.5°	15.7	17.2	29.0	26.1	20.2	16.2	21.2	22.4	24.8	22.2	12.0
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°	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1
2.5°	482.9	483.5	482.1	481.1	480.7	480.1	479.5	479.7	480.5	481.3	481.1
5°	485.3	485.5	483.1	481.9	481.1	480.3	480.3	480.9	482.5	483.7	483.7
7.5°	491.3	491.3	487.9	485.7	484.5	483.1	482.7	482.9	484.1	485.7	485.9
10°	500.7	499.9	495.5	492.1	489.9	486.5	483.5	481.9	482.5	483.5	483.5
12.5°	512.2	510.0	504.3	499.7	494.3	487.9	481.7	478.5	478.3	479.3	478.9
15°	524.4	521.9	514.1	505.7	496.3	486.9	479.5	474.9	471.3	470.3	472.5
17.5°	538.5	533.5	522.7	511.1	497.1	484.9	473.3	463.8	457.4	455.6	456.3
20°	555.8	549.2	534.6	516.3	496.5	477.7	459.7	447.0	436.6	433.4	433.9
22.5°	579.7	568.2	546.8	519.0	491.5	464.1	439.0	422.6	410.0	405.0	408.0
25°	606.7	594.3	558.4	518.3	478.5	442.2	414.6	393.1	381.8	374.4	375.9
27.5°	643.9	621.9	570.8	512.9	459.9	415.6	383.6	363.3	352.9	349.1	350.9
30°	691.6	657.7	584.3	498.3	430.4	381.9	352.3	339.1	332.9	328.1	329.6
32.5°	726.1	683.0	587.2	473.7	398.5	351.3	331.1	321.3	314.5	309.8	310.9
35°	750.7	704.4	585.8	443.4	365.3	326.0	314.2	306.2	295.2	285.2	283.4
37.5°	783.7	731.2	575.7	410.4	332.5	309.1	300.7	285.8	270.0	256.6	256.0
40°	834.4	762.7	553.8	371.5	304.4	296.4	286.2	267.0	249.9	239.1	238.3
42.5°	886.7	791.8	524.1	330.7	281.4	283.2	270.8	251.7	241.3	234.4	233.6
45°	950.6	823.2	492.1	295.2	264.4	270.8	257.4	246.3	240.1	235.5	234.4
47.5°	1019.7	855.4	456.1	263.4	249.9	259.4	251.7	246.7	243.4	240.1	238.7
50°	1094.2	891.5	422.2	237.7	236.9	247.6	251.2	249.4	247.3	246.3	245.2
52.5°	1175.9	928.3	393.8	219.7	225.5	239.1	251.3	252.8	252.8	252.1	251.3
55°	1231.2	954.0	365.0	205.1	213.9	232.3	251.0	256.4	258.4	257.6	256.7
57.5°	1272.1	968.0	328.7	192.5	204.1	225.7	248.8	256.7	258.8	259.8	259.4
60°	1280.4	954.9	281.2	179.2	193.5	216.1	240.8	250.8	253.4	259.6	260.2
62.5°	1242.6	914.9	234.0	166.2	180.5	201.5	230.0	244.0	249.2	258.8	259.8
64°	1196.1	870.1	207.7	158.0	172.0	193.2	224.5	242.2	249.0	261.8	262.6
65°	1162.1	837.4	191.3	152.8	166.6	187.8	221.5	242.7	250.8	266.4	267.6
67.5°	1036.7	725.1	158.2	140.6	153.9	178.7	222.1	247.7	250.3	268.2	268.0
70°	857.9	577.2	132.6	129.4	141.4	171.2	219.7	239.8	239.9	251.7	249.0
72.5°	642.3	426.6	114.9	117.8	127.6	153.6	207.5	228.9	225.5	227.1	224.3
75°	441.2	282.2	99.0	105.3	113.1	135.8	190.3	207.9	202.5	200.5	198.5
77.5°	235.5	156.1	82.3	93.1	98.3	117.4	166.1	183.1	177.4	169.7	167.0
80°	95.4	73.5	66.3	77.1	80.1	94.5	138.2	148.8	144.6	131.0	126.6
82.5°	47.8	44.1	52.1	60.7	60.9	67.5	102.7	112.8	103.4	86.8	82.9
85°	25.1	25.8	35.9	42.7	37.7	36.5	61.7	68.3	62.7	54.5	49.1
87.5°	9.0	10.4	18.8	18.6	13.2	7.0	13.6	6.6	3.6	2.2	2.8
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)