

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: P382733

Luminaire Tested: **GLEON-SA1A-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4646.6 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

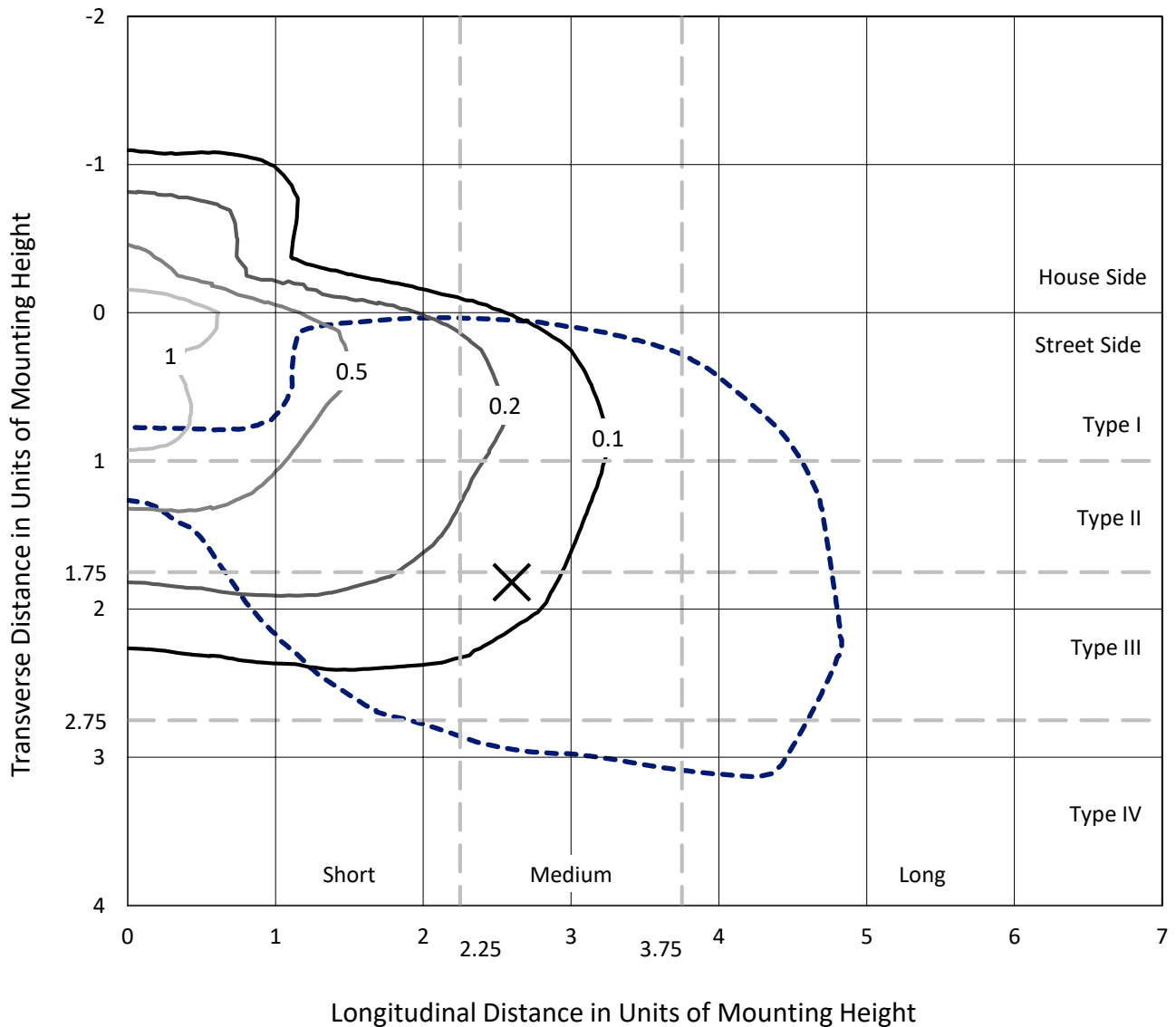
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382733
 CATALOG NUMBER: GLEON-SA1A-735-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

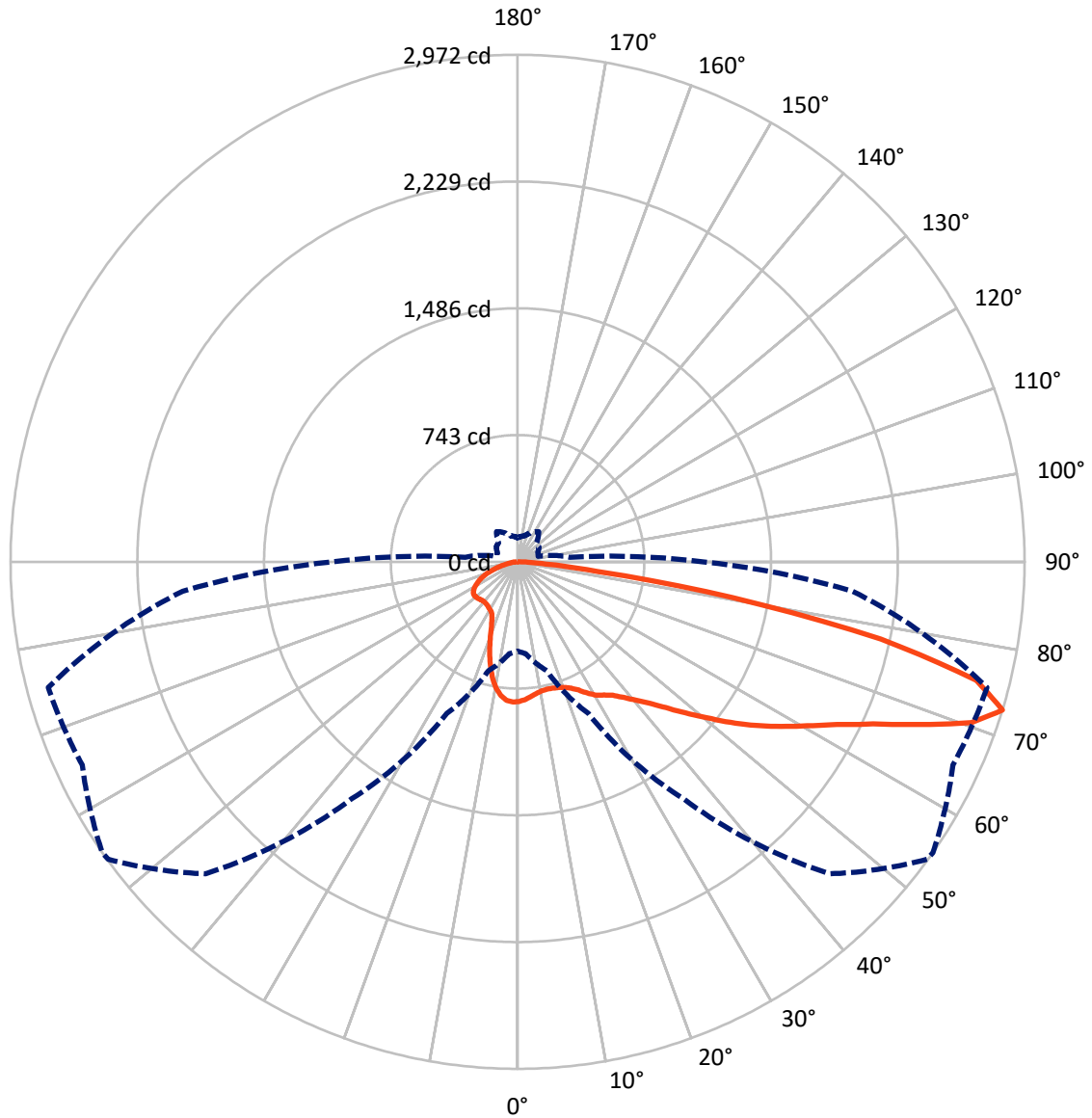
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P382733
CATALOG NUMBER: GLEON-SA1A-735-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P382733
 CATALOG NUMBER: GLEON-SA1A-735-U-T3R

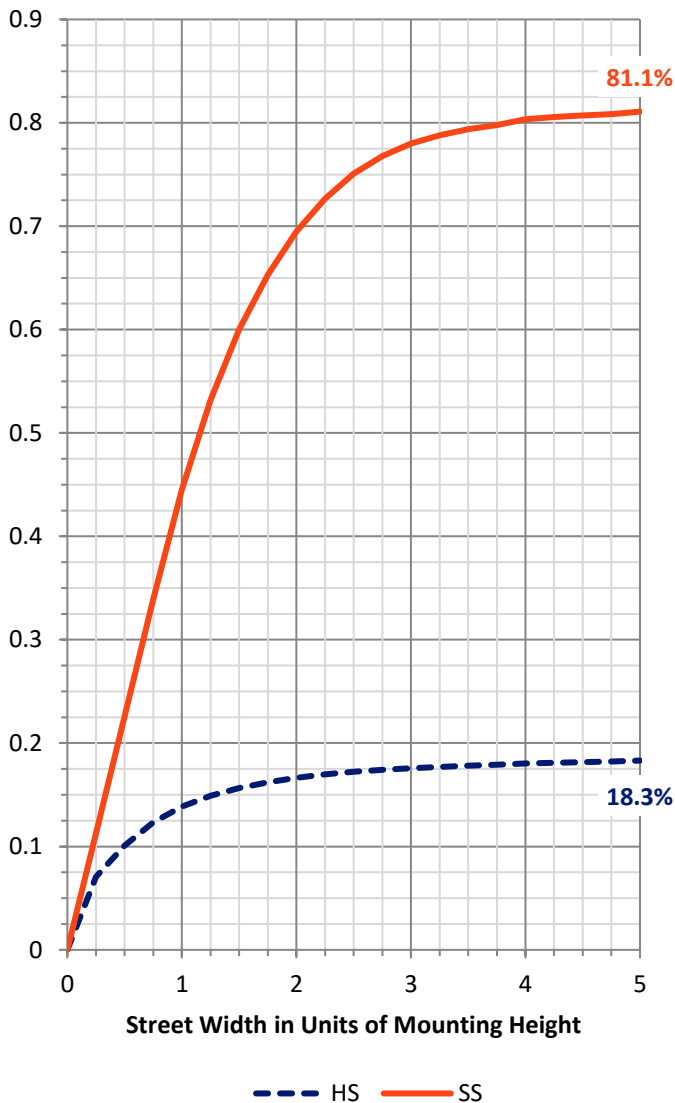
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	863.6	0.0	863.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3782.9	0.0	3782.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	4646.6	0.0	4646.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	1.6
10°-20°	197.4	4.2
20°-30°	325.5	7.0
30°-40°	481.5	10.4
40°-50°	672.1	14.5
50°-60°	875.1	18.8
60°-70°	1075.5	23.1
70°-80°	843.1	18.1
80°-90°	102.0	2.2
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°	4646.6	100.0
0°-180°	4646.6	100.0

Coefficient of Utilization



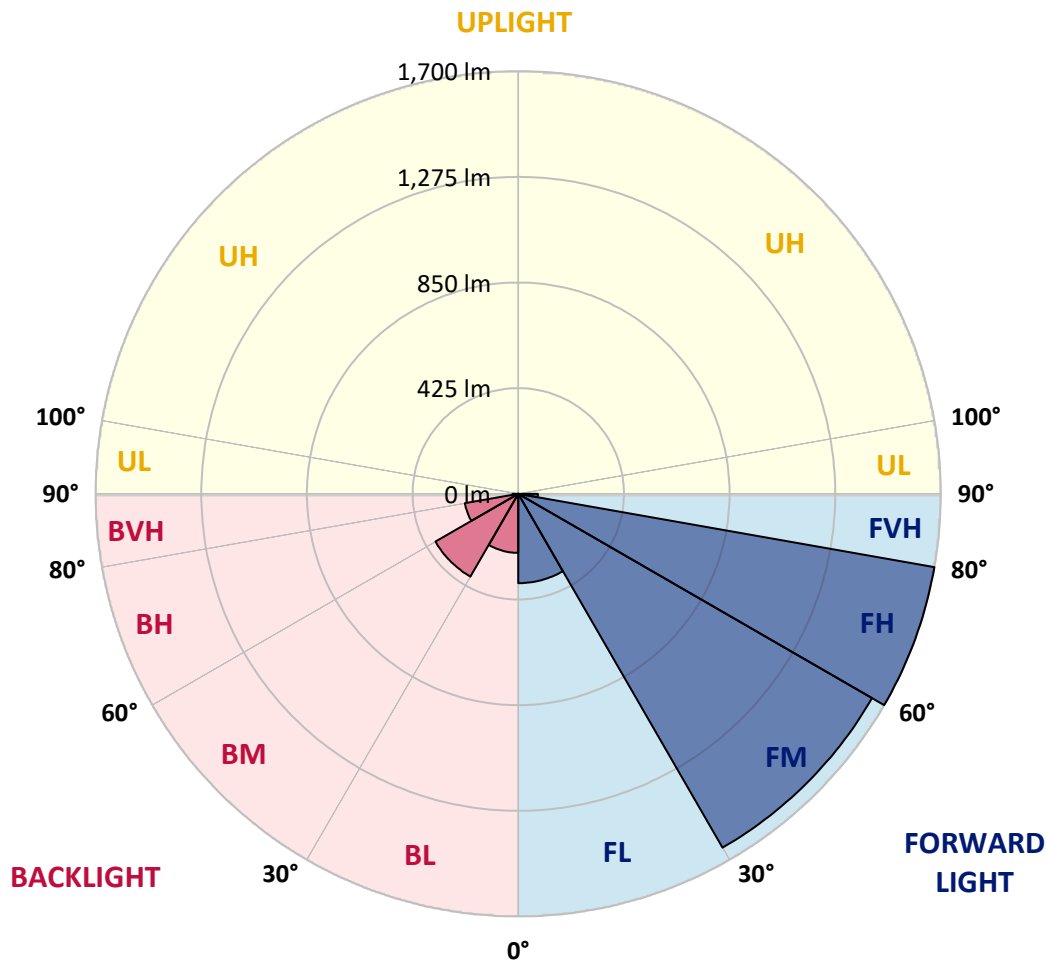
REPORT NUMBER: P382733
 CATALOG NUMBER: GLEON-SA1A-735-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	359.5	7.7			
FM (30°-60°)	1644.0	35.4			
FH (60°-80°)	1700.5	36.6			G1/1800
FVH (80°-90°)	78.9	1.7			G1/100
BL (0°-30°)	237.6	5.1	B1/500		
BM (30°-60°)	384.8	8.3	B1/1000		
BH (60°-80°)	218.1	4.7	B1/500		G1/500
BVH (80°-90°)	23.1	0.5			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 IV Medium





REPORT NUMBER: P382733

CATALOG NUMBER: GLEON-SA1A-735-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	819.6	819.6	819.6	819.6	819.6	819.6	819.6	819.6	819.6	819.6	819.6
2.5°	792.8	791.0	793.3	796.7	800.3	805.1	807.9	809.2	814.1	815.9	820.0
5°	756.1	755.2	759.1	764.8	772.8	784.1	793.2	794.9	807.7	816.9	825.2
7.5°	729.5	729.5	734.1	740.8	749.7	764.9	777.8	780.2	802.0	821.6	837.0
10°	708.3	709.1	714.4	722.4	732.9	749.1	766.2	768.9	800.4	832.6	857.0
12.5°	694.2	696.1	700.9	708.2	721.1	740.8	762.5	766.0	803.7	848.3	881.2
15°	703.1	706.2	706.7	709.7	716.9	738.3	764.6	768.4	810.7	864.3	908.7
17.5°	742.4	743.5	738.5	732.3	728.8	742.5	771.2	775.1	819.2	880.1	935.1
20°	802.0	801.3	790.8	773.8	756.3	758.5	782.0	786.1	830.7	894.1	961.5
22.5°	877.3	875.1	859.0	827.7	797.8	785.2	801.0	804.5	848.0	914.0	989.7
25°	968.6	963.8	942.4	900.5	856.5	824.1	829.6	832.9	873.0	936.3	1015.6
27.5°	1065.0	1060.1	1033.0	982.3	923.6	873.2	868.9	871.8	901.6	952.8	1034.8
30°	1165.7	1160.6	1135.8	1079.0	994.9	924.1	905.7	906.8	921.8	961.7	1050.4
32.5°	1267.0	1262.2	1234.4	1168.4	1072.2	978.7	932.2	930.8	933.8	971.0	1068.1
35°	1369.7	1371.5	1339.0	1266.1	1157.9	1039.4	963.6	960.6	954.1	990.0	1093.3
37.5°	1479.5	1478.3	1436.2	1359.9	1247.5	1105.4	1008.7	1008.2	985.5	1025.9	1132.7
40°	1553.0	1553.7	1528.1	1455.9	1338.1	1178.3	1066.4	1065.3	1035.5	1079.8	1184.3
42.5°	1581.7	1586.8	1593.4	1547.6	1432.9	1262.9	1135.3	1133.8	1105.4	1157.0	1245.0
45°	1583.7	1594.1	1634.9	1629.1	1528.9	1359.8	1223.4	1218.9	1198.5	1259.6	1317.5
47.5°	1566.1	1576.8	1644.6	1677.5	1614.7	1461.9	1326.3	1322.9	1305.3	1388.0	1396.0
50°	1527.6	1537.9	1624.5	1701.3	1685.4	1560.2	1444.9	1435.9	1426.5	1536.3	1485.8
52.5°	1455.6	1475.3	1597.7	1706.9	1727.6	1647.4	1569.8	1563.8	1568.9	1692.8	1575.7
55°	1285.1	1307.1	1528.5	1702.2	1758.9	1720.8	1694.5	1694.2	1721.0	1856.9	1672.2
57.5°	1189.5	1205.0	1387.5	1694.2	1795.9	1793.5	1818.0	1821.0	1873.2	2035.7	1773.3
60°	1135.5	1151.8	1316.1	1664.5	1853.3	1887.7	1944.0	1950.0	2028.0	2233.6	1895.0
62.5°	1086.4	1104.3	1271.8	1604.1	1920.9	2022.4	2095.1	2100.4	2191.8	2437.0	2012.5
65°	1002.3	1022.7	1207.0	1564.4	1982.5	2198.0	2286.9	2290.6	2380.0	2650.2	2102.4
67.5°	883.8	902.3	1084.8	1476.7	2028.0	2411.2	2542.2	2544.1	2566.6	2800.6	2148.4
70°	745.1	752.2	910.6	1295.6	1974.1	2610.8	2821.8	2822.3	2736.8	2897.0	2140.9
72.5°	523.5	540.2	661.0	980.7	1696.5	2586.4	2967.0	2972.3	2815.9	2848.4	1969.8
75°	321.1	338.7	414.6	594.3	1076.3	2034.1	2741.4	2778.3	2667.6	2539.7	1609.2
77.5°	214.7	221.2	270.6	346.5	487.7	1170.3	2107.5	2177.3	2216.1	1852.1	1029.1
80°	119.7	132.3	179.4	215.3	216.9	465.0	1263.7	1280.0	1232.9	737.5	317.5
82.5°	63.4	70.3	119.7	126.5	118.3	155.7	471.0	471.5	394.0	197.8	94.4
85°	49.1	55.0	82.1	77.2	60.5	69.0	155.4	163.9	134.0	81.0	30.7
87.5°	24.5	30.5	55.7	49.0	23.7	19.7	55.5	59.3	52.9	31.7	11.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P382733
 CATALOG NUMBER: GLEON-SA1A-735-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	819.6	819.6	819.6	819.6	819.6	819.6	819.6	819.6	819.6	819.6	819.6
2.5°	821.6	823.0	824.7	822.8	822.2	819.7	815.5	814.5	812.3	812.5	813.7
5°	828.8	831.1	830.2	823.0	814.4	802.2	789.8	779.1	772.0	771.5	771.0
7.5°	842.6	844.2	836.8	816.2	792.1	764.1	737.8	714.7	700.7	697.3	696.5
10°	864.3	864.0	843.7	802.2	754.1	704.2	661.9	629.8	611.1	605.6	604.2
12.5°	888.4	884.9	846.0	776.9	700.4	631.2	577.6	541.9	522.5	516.2	514.6
15°	913.4	904.4	840.3	738.9	634.5	552.6	496.2	463.3	452.8	449.3	448.7
17.5°	936.7	919.3	823.7	687.4	559.3	474.3	430.4	417.1	419.7	424.2	424.4
20°	959.4	929.4	796.9	622.5	480.1	409.8	394.9	404.6	416.5	425.8	427.0
22.5°	981.9	936.5	762.6	547.4	409.1	373.6	384.1	401.8	415.5	425.4	427.2
25°	1000.7	938.2	715.1	467.4	359.9	359.9	378.9	395.6	409.1	419.0	420.8
27.5°	1007.6	926.6	648.4	393.3	335.1	353.6	371.6	385.6	397.0	407.6	409.5
30°	1010.3	905.1	571.1	333.8	324.8	346.8	361.9	373.8	384.6	394.5	396.3
32.5°	1010.7	879.2	489.2	300.1	317.8	339.7	349.8	360.3	372.0	375.9	376.5
35°	1013.7	848.5	402.9	282.8	311.2	333.2	341.2	348.8	329.9	331.4	332.6
37.5°	1022.3	818.3	330.7	273.0	306.9	329.8	339.3	312.0	297.3	293.8	293.3
40°	1038.5	785.9	277.1	265.2	305.5	331.4	327.3	291.3	265.9	246.9	244.1
42.5°	1060.9	751.1	242.9	260.1	306.5	339.7	310.4	271.4	229.2	216.9	215.3
45°	1086.2	714.6	224.4	256.5	310.3	346.3	306.9	244.8	212.0	202.8	202.0
47.5°	1110.7	669.9	214.8	254.9	315.4	341.0	292.4	236.7	203.8	199.0	199.4
50°	1138.8	629.5	209.0	253.1	320.0	337.8	275.9	232.4	200.7	206.7	213.0
52.5°	1162.5	587.7	203.8	249.7	321.8	331.9	271.6	233.3	200.7	212.2	218.2
55°	1190.6	556.2	197.9	242.5	318.4	315.4	268.7	237.9	203.1	195.9	196.5
57.5°	1226.8	545.9	191.3	231.2	307.4	291.5	267.3	242.5	201.7	197.1	198.7
60°	1277.1	556.8	188.6	216.4	290.4	272.6	267.4	240.2	191.8	184.0	184.1
62.5°	1324.9	569.1	188.5	207.2	269.3	255.8	263.8	232.4	186.8	182.2	184.0
65°	1340.6	556.7	181.0	196.8	245.6	235.7	257.2	224.3	183.0	176.1	175.8
67.5°	1319.5	518.2	165.7	180.0	218.4	212.3	248.6	214.5	177.0	171.4	170.5
70°	1257.1	432.3	146.9	157.9	187.5	185.9	234.9	203.3	169.0	164.1	160.0
72.5°	1089.0	308.1	123.8	131.3	152.7	157.7	216.1	188.5	157.7	147.2	140.9
75°	894.4	228.0	101.7	103.3	116.0	129.7	190.2	171.2	144.4	126.5	121.7
77.5°	547.7	139.5	81.0	81.6	83.2	103.4	156.6	151.9	127.4	105.5	102.0
80°	177.4	76.1	58.5	61.5	56.8	75.8	121.2	129.3	109.4	88.2	84.4
82.5°	67.4	44.4	39.6	41.5	39.4	50.9	88.4	103.6	89.6	72.5	59.0
85°	32.6	25.2	23.4	26.2	24.3	26.1	56.5	76.3	67.9	47.2	44.0
87.5°	11.6	11.2	8.9	12.1	10.3	9.2	17.2	38.5	44.9	32.5	29.1
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)