

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: P317875

Luminaire Tested: **GLEON-SA1B-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317875
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-SA1B-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4497 lumens
Efficiency: N/A
Efficacy: 102.2 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

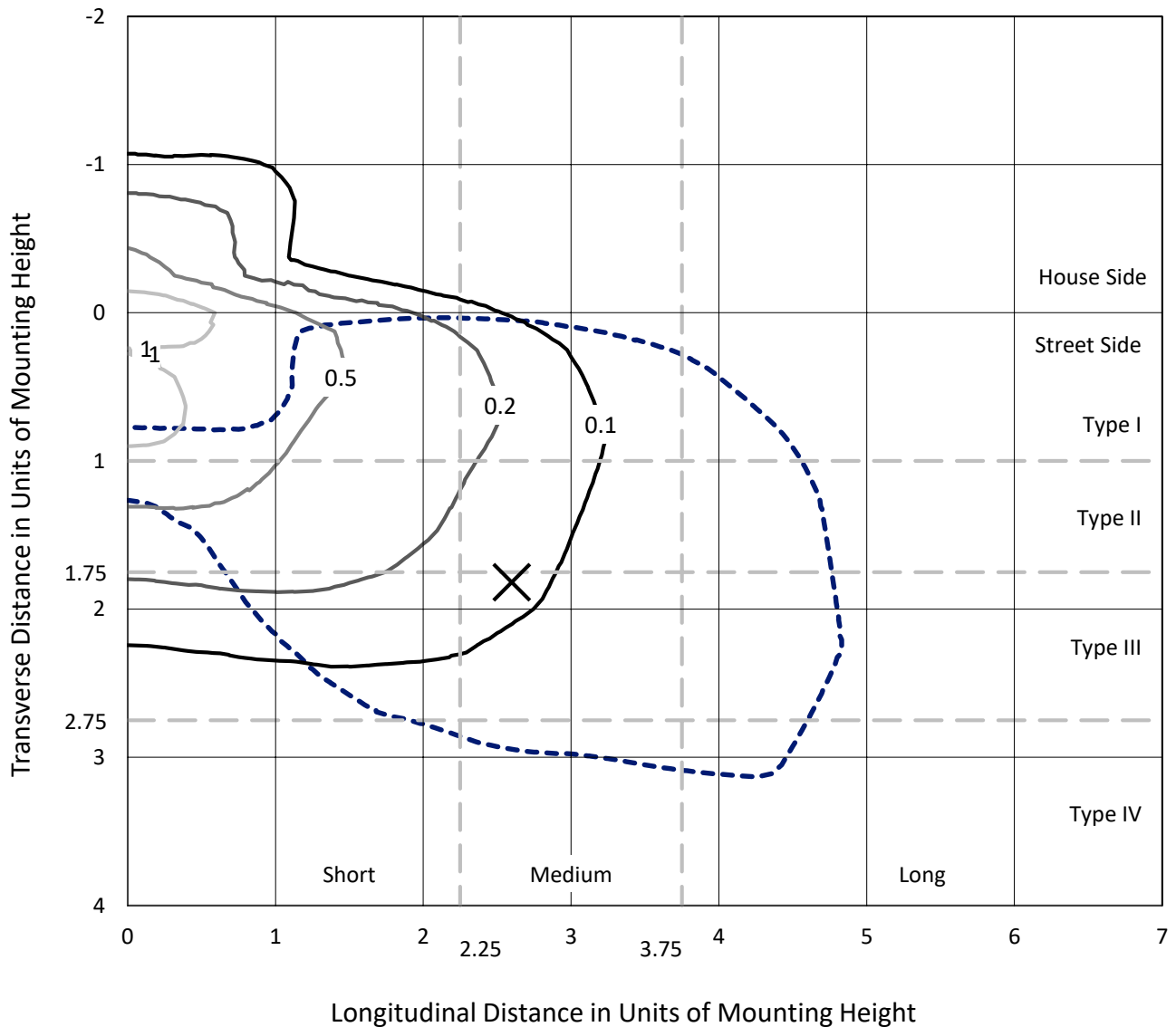
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

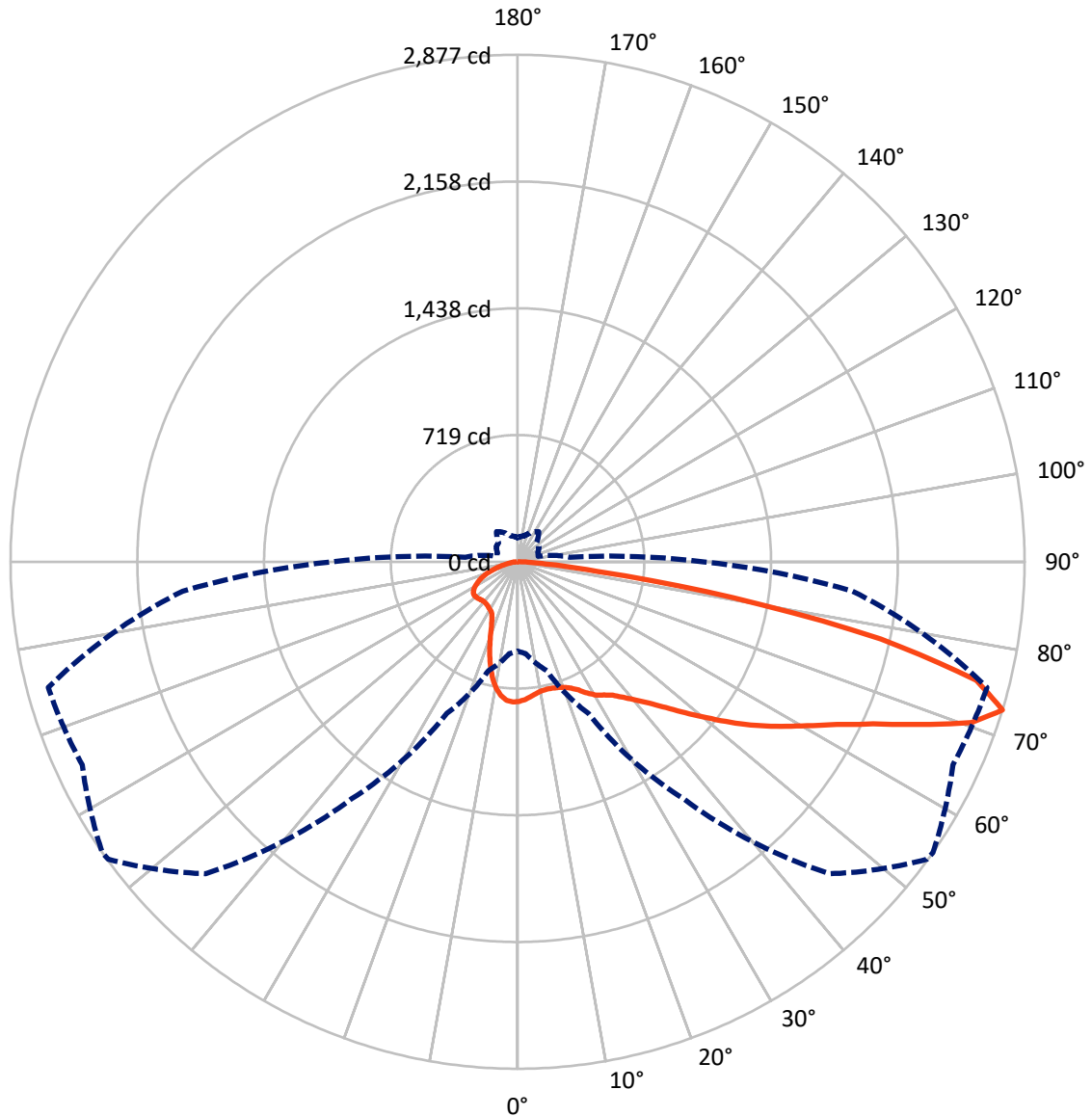
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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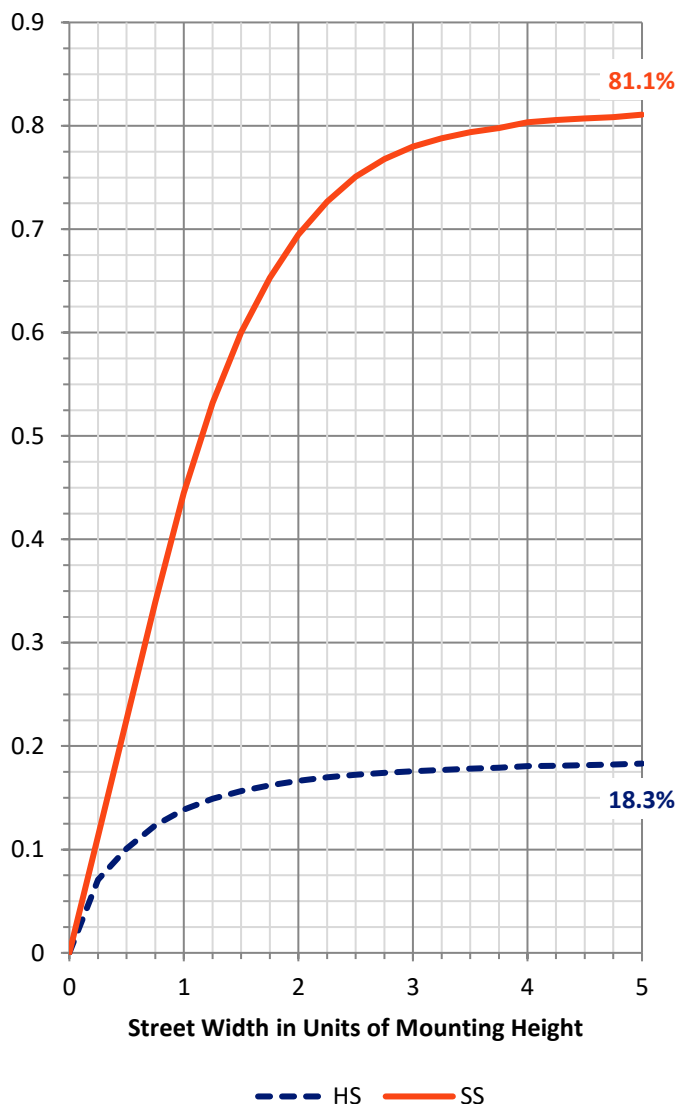
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	835.9	0.0	835.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3661.2	0.0	3661.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	4497.0	0.0	4497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	1.6
10°-20°	191.1	4.2
20°-30°	315.1	7.0
30°-40°	466.0	10.4
40°-50°	650.5	14.5
50°-60°	847.0	18.8
60°-70°	1040.9	23.1
70°-80°	815.9	18.1
80°-90°	98.7	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°	4497.0	100.0
0°-180°	4497.0	100.0

Coefficient of Utilization



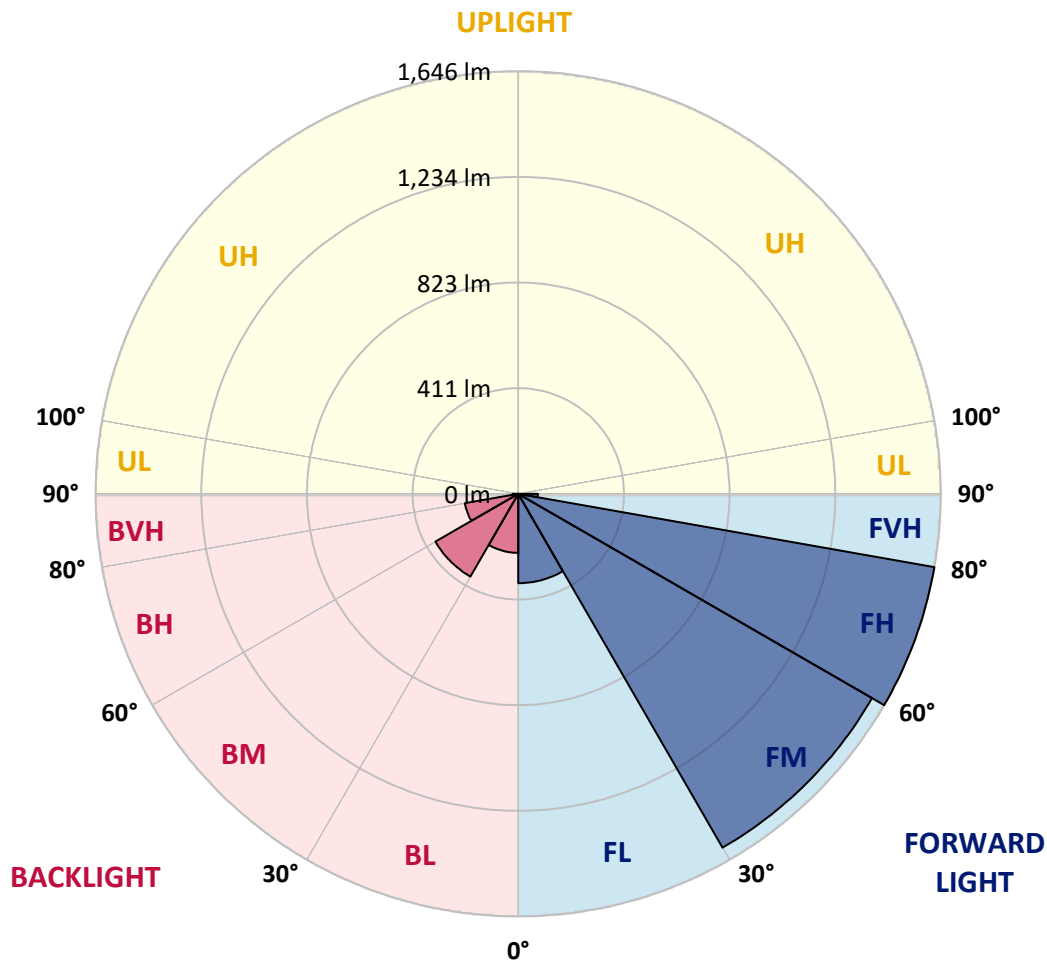
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.9	7.7			
FM (30°-60°)	1591.1	35.4			
FH (60°-80°)	1645.8	36.6			G1/1800
FVH (80°-90°)	76.3	1.7			G1/100
BL (0°-30°)	230.0	5.1	B1/500		
BM (30°-60°)	372.4	8.3	B1/1000		
BH (60°-80°)	211.1	4.7	B1/500		G1/500
BVH (80°-90°)	22.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2
2.5°	767.4	765.5	767.8	771.0	774.5	779.2	781.9	783.1	787.9	789.7	793.6
5°	731.8	730.9	734.7	740.2	747.9	758.8	767.7	769.3	781.8	790.6	798.6
7.5°	706.0	706.0	710.4	716.9	725.6	740.3	752.8	755.0	776.2	795.1	810.0
10°	685.5	686.2	691.4	699.2	709.3	725.0	741.5	744.1	774.6	805.8	829.5
12.5°	671.8	673.6	678.3	685.3	697.9	716.9	737.9	741.4	777.8	821.0	852.9
15°	680.5	683.5	684.0	686.9	693.8	714.5	740.0	743.7	784.7	836.5	879.4
17.5°	718.4	719.5	714.8	708.7	705.4	718.6	746.4	750.2	792.9	851.8	905.0
20°	776.2	775.6	765.4	749.0	732.0	734.1	756.9	760.8	804.0	865.3	930.5
22.5°	849.1	846.9	831.3	801.1	772.1	759.9	775.3	778.6	820.7	884.6	957.8
25°	937.5	932.8	912.1	871.5	828.9	797.6	802.9	806.1	845.0	906.2	982.9
27.5°	1030.7	1026.0	999.7	950.7	893.9	845.1	841.0	843.8	872.6	922.1	1001.4
30°	1128.2	1123.2	1099.2	1044.2	962.8	894.3	876.6	877.6	892.1	930.8	1016.6
32.5°	1226.2	1221.5	1194.6	1130.8	1037.7	947.2	902.2	900.9	903.8	939.7	1033.8
35°	1325.6	1327.4	1295.9	1225.3	1120.7	1006.0	932.6	929.7	923.3	958.1	1058.1
37.5°	1431.9	1430.7	1390.0	1316.1	1207.4	1069.8	976.2	975.7	953.7	992.9	1096.2
40°	1503.0	1503.7	1479.0	1409.1	1295.0	1140.4	1032.1	1031.0	1002.2	1045.0	1146.2
42.5°	1530.8	1535.8	1542.1	1497.8	1386.8	1222.3	1098.8	1097.3	1069.8	1119.7	1205.0
45°	1532.7	1542.8	1582.2	1576.6	1479.7	1316.0	1184.0	1179.7	1160.0	1219.1	1275.1
47.5°	1515.7	1526.0	1591.7	1623.6	1562.8	1414.9	1283.6	1280.3	1263.3	1343.3	1351.1
50°	1478.5	1488.4	1572.2	1646.5	1631.2	1509.9	1398.5	1389.6	1380.5	1486.9	1438.0
52.5°	1408.8	1427.8	1546.2	1652.0	1672.0	1594.4	1519.2	1513.4	1518.5	1638.3	1525.0
55°	1243.7	1264.9	1479.3	1647.4	1702.2	1665.3	1640.0	1639.7	1665.6	1797.2	1618.4
57.5°	1151.2	1166.2	1342.9	1639.7	1738.1	1735.8	1759.5	1762.4	1813.0	1970.2	1716.2
60°	1098.9	1114.7	1273.8	1611.0	1793.7	1826.9	1881.5	1887.2	1962.7	2161.7	1833.9
62.5°	1051.4	1068.7	1230.9	1552.5	1859.1	1957.3	2027.6	2032.8	2121.3	2358.6	1947.7
65°	970.1	989.7	1168.2	1514.0	1918.7	2127.2	2213.4	2216.8	2303.4	2564.8	2034.7
67.5°	855.3	873.2	1049.9	1429.1	1962.7	2333.7	2460.3	2462.3	2484.0	2710.5	2079.2
70°	721.2	728.0	881.3	1253.9	1910.6	2526.7	2731.0	2731.5	2648.7	2803.8	2071.9
72.5°	506.7	522.8	639.8	949.2	1641.9	2503.2	2871.5	2876.7	2725.2	2756.7	1906.4
75°	310.8	327.8	401.3	575.2	1041.7	1968.7	2653.1	2688.9	2581.7	2457.9	1557.3
77.5°	207.8	214.2	261.9	335.4	471.9	1132.7	2039.7	2107.2	2144.7	1792.5	995.9
80°	115.9	128.0	173.6	208.4	209.9	450.1	1223.0	1238.8	1193.3	713.7	307.3
82.5°	61.4	68.0	115.9	122.4	114.5	150.7	455.8	456.3	381.2	191.4	91.3
85°	47.5	53.2	79.4	74.7	58.5	66.8	150.4	158.6	129.7	78.4	29.8
87.5°	23.7	29.5	53.9	47.4	22.9	19.1	53.8	57.4	51.2	30.7	10.8
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°	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2
2.5°	795.1	796.5	798.2	796.4	795.8	793.3	789.2	788.3	786.2	786.3	787.6
5°	802.1	804.4	803.5	796.5	788.2	776.5	764.3	754.0	747.2	746.7	746.2
7.5°	815.5	817.0	809.9	790.0	766.6	739.6	714.0	691.7	678.2	674.9	674.1
10°	836.5	836.2	816.6	776.5	729.8	681.5	640.5	609.5	591.5	586.1	584.8
12.5°	859.9	856.4	818.8	751.9	677.9	610.9	559.0	524.5	505.6	499.6	498.1
15°	884.0	875.3	813.2	715.1	614.1	534.8	480.3	448.4	438.2	434.9	434.3
17.5°	906.5	889.8	797.1	665.3	541.3	459.0	416.5	403.7	406.2	410.6	410.7
20°	928.5	899.5	771.3	602.4	464.6	396.6	382.2	391.6	403.1	412.1	413.3
22.5°	950.2	906.3	738.0	529.8	396.0	361.5	371.7	388.8	402.1	411.8	413.4
25°	968.5	908.0	692.2	452.3	348.3	348.3	366.7	382.9	396.0	405.5	407.2
27.5°	975.1	896.8	627.5	380.6	324.3	342.2	359.7	373.2	384.3	394.5	396.3
30°	977.7	876.0	552.7	323.1	314.4	335.7	350.3	361.8	372.3	381.9	383.5
32.5°	978.2	850.9	473.4	290.4	307.6	328.8	338.6	348.7	360.0	363.8	364.4
35°	981.1	821.3	389.9	273.7	301.2	322.5	330.2	337.5	319.3	320.6	321.9
37.5°	989.4	792.0	320.0	264.3	297.1	319.1	328.4	302.0	287.7	284.3	283.9
40°	1005.1	760.7	268.2	256.7	295.6	320.8	316.7	281.9	257.3	238.9	236.2
42.5°	1026.8	726.9	235.1	251.7	296.6	328.8	300.4	262.6	221.8	209.9	208.4
45°	1051.2	691.6	217.2	248.2	300.3	335.1	297.1	236.9	205.2	196.2	195.5
47.5°	1074.9	648.3	207.9	246.7	305.3	330.1	283.0	229.1	197.3	192.6	193.1
50°	1102.1	609.2	202.3	245.0	309.7	326.9	267.0	225.0	194.3	200.0	206.1
52.5°	1125.1	568.8	197.3	241.7	311.4	321.2	262.9	225.7	194.3	205.4	211.1
55°	1152.2	538.3	191.5	234.7	308.2	305.3	260.0	230.3	196.5	189.6	190.2
57.5°	1187.3	528.3	185.2	223.7	297.6	282.1	258.7	234.7	195.2	190.8	192.3
60°	1235.9	538.9	182.6	209.5	281.0	263.8	258.8	232.4	185.6	178.0	178.2
62.5°	1282.3	550.8	182.4	200.5	260.6	247.6	255.3	225.0	180.8	176.3	178.0
65°	1297.5	538.8	175.1	190.5	237.7	228.1	248.9	217.1	177.1	170.4	170.1
67.5°	1277.1	501.5	160.4	174.2	211.4	205.5	240.6	207.6	171.3	165.9	165.0
70°	1216.6	418.5	142.2	152.8	181.5	180.0	227.4	196.7	163.6	158.9	154.9
72.5°	1054.0	298.2	119.8	127.1	147.8	152.7	209.2	182.4	152.7	142.5	136.4
75°	865.6	220.7	98.4	99.9	112.2	125.5	184.1	165.7	139.7	122.4	117.7
77.5°	530.1	135.0	78.4	79.0	80.5	100.1	151.6	147.0	123.3	102.1	98.7
80°	171.6	73.7	56.7	59.5	55.0	73.4	117.3	125.2	105.9	85.4	81.7
82.5°	65.3	43.0	38.3	40.3	38.1	49.2	85.5	100.2	86.7	70.2	57.1
85°	31.6	24.3	22.6	25.4	23.5	25.2	54.7	73.8	65.8	45.7	42.5
87.5°	11.2	10.8	8.7	11.7	10.0	9.0	16.7	37.2	43.4	31.4	28.1
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)