

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: P651665

Luminaire Tested: **GALN-SA1A-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3930 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

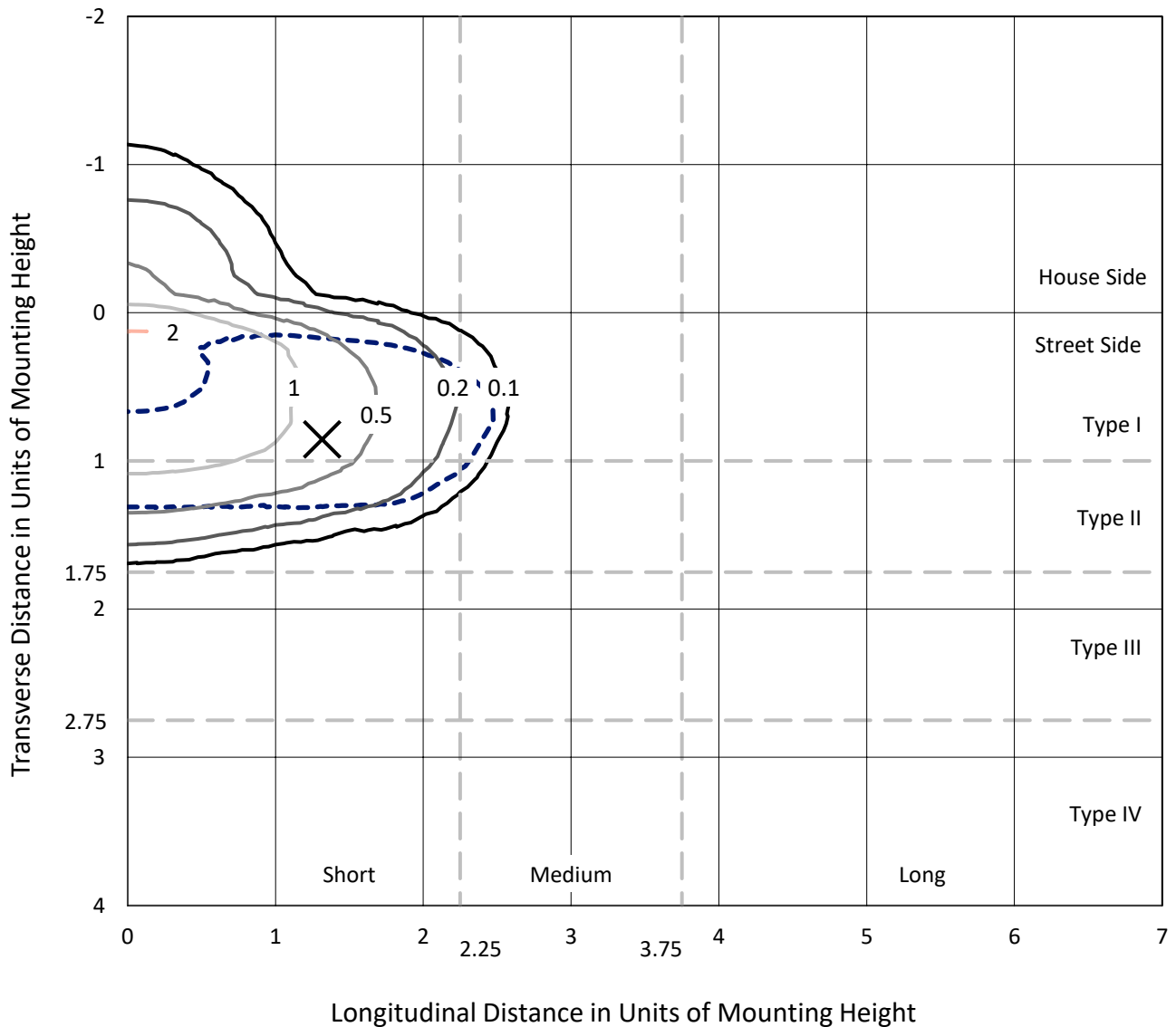
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

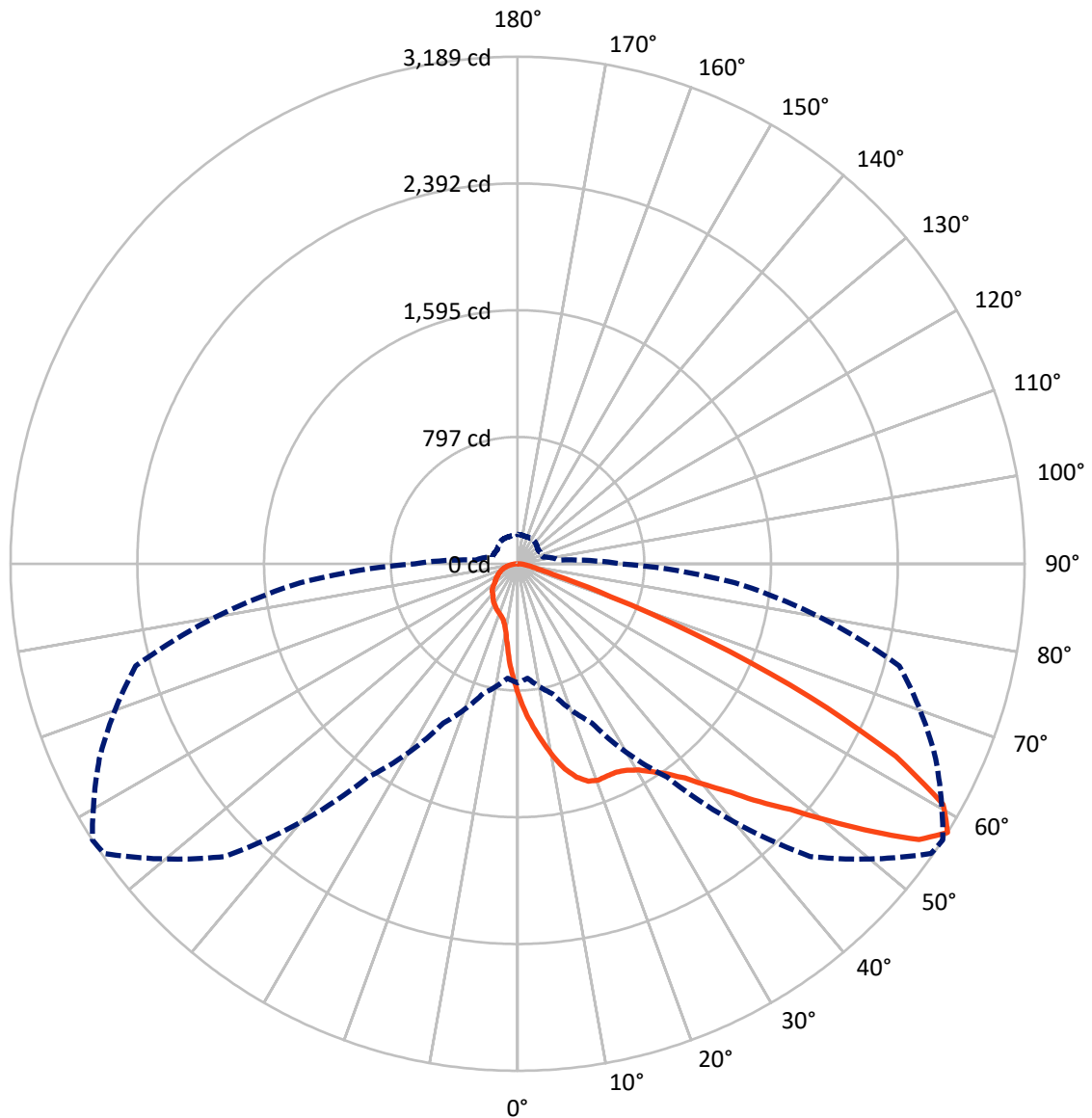
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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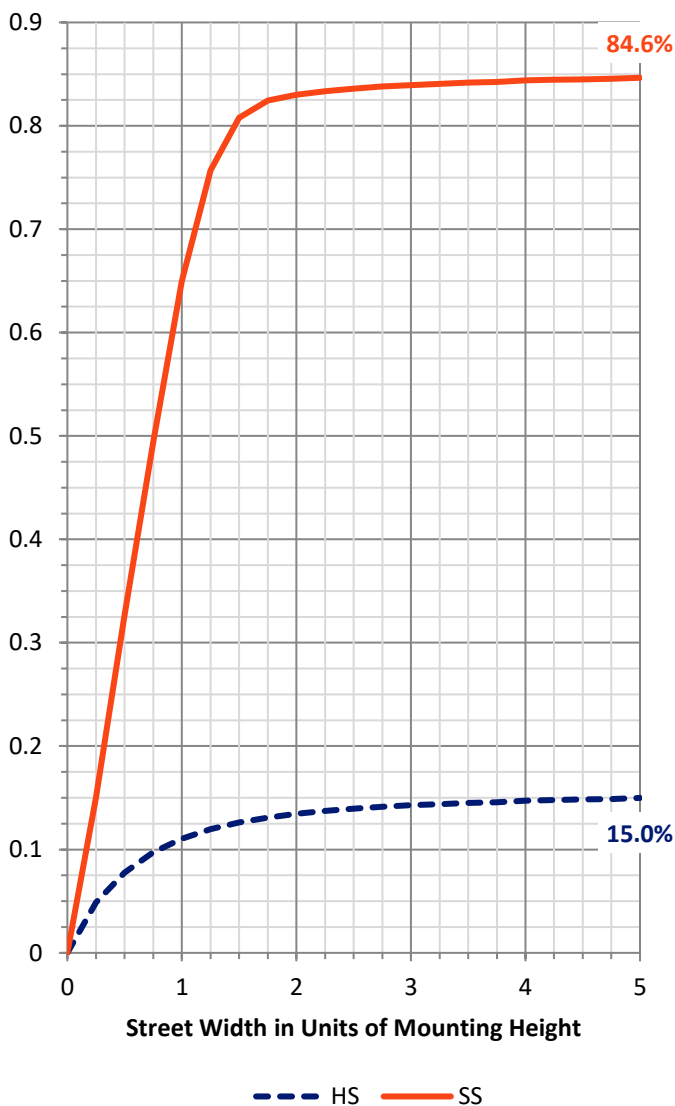
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	597.7	0.0	597.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	3332.4	0.0	3332.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	3930.0	0.0	3930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	2.0
10°-20°	233.9	6.0
20°-30°	388.3	9.9
30°-40°	584.9	14.9
40°-50°	878.2	22.3
50°-60°	984.4	25.0
60°-70°	576.1	14.7
70°-80°	170.4	4.3
80°-90°	34.4	0.9
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°	3930.0	100.0
0°-180°	3930.0	100.0

Coefficient of Utilization

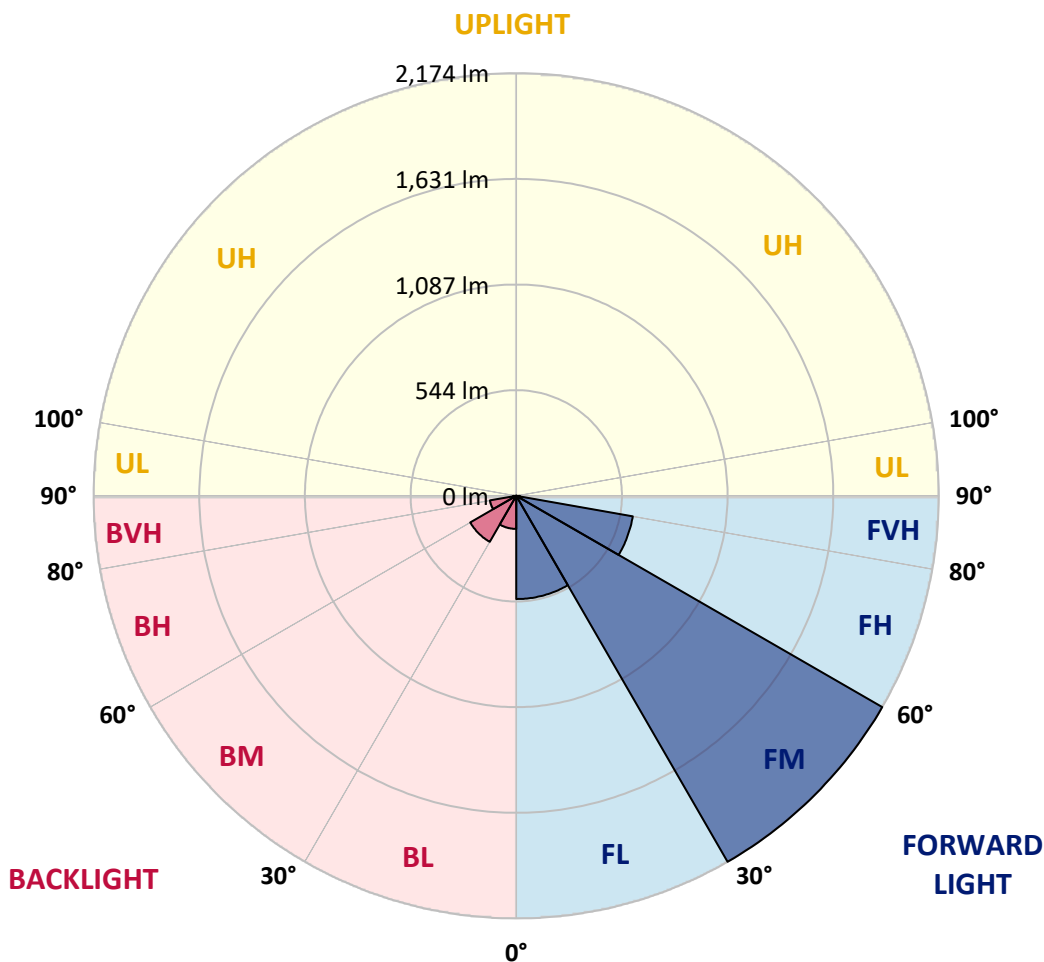


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.2	13.5			
FM (30°-60°)	2174.2	55.3			
FH (60°-80°)	609.0	15.5			G0/660
FVH (80°-90°)	17.9	0.5			G1/100
BL (0°-30°)	170.3	4.3	B1/500		
BM (30°-60°)	273.3	7.0	B1/1000		
BH (60°-80°)	137.5	3.5	B1/500		G1/500
BVH (80°-90°)	16.6	0.4			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6
2.5°	1025.9	1014.8	1005.9	998.2	988.1	960.8	933.4	933.0	911.3	877.7	843.3
5°	1193.0	1178.0	1179.9	1155.9	1131.7	1092.2	1034.3	1031.3	985.1	922.2	858.3
7.5°	1302.0	1302.1	1296.1	1282.4	1256.3	1211.4	1145.8	1130.9	1066.6	971.3	875.6
10°	1296.3	1302.1	1312.3	1324.1	1332.1	1309.9	1250.1	1232.0	1148.3	1030.6	894.7
12.5°	1221.9	1231.0	1245.4	1275.0	1323.0	1359.6	1339.1	1324.5	1243.0	1089.9	915.8
15°	1175.5	1180.8	1188.8	1208.8	1260.4	1348.0	1400.9	1393.1	1332.2	1156.7	939.5
17.5°	1161.3	1166.6	1169.2	1181.4	1218.3	1307.9	1425.2	1439.0	1411.5	1218.3	963.4
20°	1175.5	1178.0	1178.0	1185.3	1214.2	1284.5	1424.1	1451.9	1476.4	1292.0	985.7
22.5°	1212.6	1213.7	1212.2	1214.8	1236.4	1290.9	1414.0	1448.5	1528.9	1354.6	1003.1
25°	1273.1	1274.8	1264.9	1258.9	1274.6	1319.4	1419.6	1451.2	1570.0	1414.5	1014.8
27.5°	1341.7	1343.9	1331.8	1317.8	1325.2	1354.4	1441.6	1470.0	1600.8	1473.3	1022.1
30°	1425.8	1426.7	1406.5	1389.7	1385.0	1406.7	1479.0	1505.5	1639.0	1542.9	1033.0
32.5°	1511.9	1518.3	1492.4	1468.6	1460.7	1467.4	1534.2	1559.9	1684.6	1617.5	1050.7
35°	1628.9	1630.0	1598.8	1570.0	1543.7	1552.3	1605.0	1623.6	1747.7	1703.8	1075.6
37.5°	1775.0	1784.9	1741.9	1688.1	1655.8	1643.3	1690.7	1710.8	1836.1	1809.7	1113.2
40°	1937.2	1940.9	1904.0	1870.5	1811.6	1775.4	1808.2	1830.1	1945.1	1935.9	1157.0
42.5°	2039.2	2047.2	2049.9	2046.5	2002.2	1941.5	1954.0	1964.3	2074.2	2054.4	1201.7
45°	2073.6	2085.4	2125.5	2210.1	2214.9	2155.1	2126.0	2136.0	2214.9	2174.1	1244.5
47.5°	2016.5	2036.8	2110.6	2284.4	2414.6	2419.1	2331.5	2309.8	2343.1	2273.2	1275.5
50°	1869.2	1873.5	1986.4	2238.2	2508.1	2671.4	2580.9	2540.4	2464.9	2346.6	1296.7
52.5°	1641.2	1646.1	1740.8	2023.3	2450.5	2847.8	2872.5	2800.3	2588.6	2403.6	1310.8
55°	1218.3	1246.9	1351.0	1624.0	2177.3	2831.2	3104.5	3063.3	2738.1	2448.7	1332.7
57.5°	749.1	722.8	846.3	1104.9	1637.5	2603.7	3176.1	3189.4	2902.7	2486.6	1369.5
60°	344.6	349.8	400.7	569.9	998.2	2036.8	2991.5	3075.9	2993.7	2485.3	1378.7
62.5°	237.5	232.8	219.8	250.2	455.2	1288.2	2526.9	2669.7	2811.2	2408.1	1342.0
65°	212.4	207.6	182.7	174.3	209.1	561.5	1836.9	2017.2	2367.0	2213.2	1250.3
67.5°	198.3	191.9	166.1	149.7	149.3	223.5	1083.1	1300.2	1755.6	1871.1	1083.4
70°	183.7	178.5	153.0	134.9	127.2	140.4	476.1	623.2	1140.0	1348.4	843.9
72.5°	169.1	163.1	140.0	120.7	110.6	105.2	182.4	237.2	644.1	808.5	517.4
75°	147.8	144.8	125.2	109.2	98.3	84.9	115.7	132.1	308.1	371.3	259.6
77.5°	129.3	126.1	111.2	95.5	87.5	69.0	82.2	89.7	129.9	150.6	117.2
80°	94.7	97.9	93.8	84.4	78.1	54.2	55.3	61.6	77.2	85.4	71.7
82.5°	60.0	66.0	72.2	65.0	59.1	42.8	38.3	40.6	52.7	55.9	31.9
85°	25.1	25.6	42.0	39.6	33.8	25.4	23.0	24.3	28.2	29.4	14.8
87.5°	9.7	9.5	14.8	13.8	10.5	7.3	7.3	8.2	11.2	10.3	4.7
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°	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6
2.5°	828.5	813.2	782.8	745.2	717.6	686.7	659.3	639.7	632.4	629.0	622.6
5°	827.8	797.7	734.9	669.0	616.1	561.9	516.1	486.4	483.8	464.1	462.0
7.5°	828.0	782.0	682.0	585.2	504.4	448.9	411.1	401.2	389.4	386.4	387.9
10°	828.6	761.9	625.1	502.1	424.0	387.6	373.5	369.6	370.0	371.3	371.6
12.5°	829.5	742.6	566.2	439.1	378.9	363.8	362.3	365.8	369.4	372.1	372.8
15°	830.6	720.5	508.8	388.3	356.2	355.0	359.9	365.8	370.9	375.0	375.6
17.5°	829.3	694.7	460.6	357.1	343.8	350.0	358.2	365.5	370.2	374.1	374.5
20°	826.3	665.8	414.1	335.1	336.1	346.2	355.0	361.8	367.0	368.9	370.5
22.5°	814.7	631.4	373.7	318.2	326.8	340.8	351.3	355.4	349.6	345.5	346.6
25°	794.9	586.7	336.1	304.4	318.4	333.2	344.0	334.1	329.3	327.7	328.5
27.5°	770.1	537.6	307.6	290.0	307.6	324.9	321.9	320.1	318.0	315.1	315.8
30°	743.4	489.6	283.5	278.8	296.0	305.9	307.2	310.0	307.6	303.3	305.0
32.5°	718.7	444.5	265.3	269.4	287.9	286.4	296.0	299.2	288.3	273.8	274.5
35°	697.6	402.5	251.5	260.1	273.8	274.5	284.2	273.0	261.1	254.3	254.7
37.5°	681.7	369.8	242.5	252.1	256.0	264.2	259.0	253.2	251.7	247.0	247.2
40°	672.3	341.2	236.7	245.9	245.2	250.9	234.3	240.1	242.2	240.7	240.9
42.5°	662.8	320.9	230.6	237.2	237.1	226.1	222.4	227.4	233.0	233.6	233.2
45°	655.3	305.3	224.4	224.1	228.5	211.3	210.2	213.2	221.2	225.1	224.8
47.5°	646.9	292.2	214.9	208.9	210.2	202.0	200.2	201.6	211.3	217.5	219.2
50°	636.3	279.0	203.1	194.9	189.6	193.4	193.9	194.0	203.7	210.8	212.4
52.5°	628.0	269.1	189.6	183.5	177.0	185.7	188.9	189.3	195.1	200.9	202.0
55°	632.9	263.5	176.2	171.9	166.1	177.7	183.9	184.8	186.1	190.4	191.0
57.5°	647.7	264.8	165.4	159.9	155.5	168.2	178.8	179.4	178.5	183.7	184.6
60°	652.3	264.2	157.4	146.5	143.9	158.1	171.2	172.5	172.3	179.8	181.3
62.5°	633.4	256.0	149.5	135.3	133.6	147.8	160.7	165.8	166.9	177.7	179.6
65°	588.8	239.2	138.9	123.5	123.5	136.8	150.6	157.7	160.7	175.1	177.3
67.5°	530.1	219.4	128.3	113.4	112.9	126.3	139.9	147.2	151.9	171.5	172.7
70°	439.9	192.8	114.9	102.4	102.4	114.5	126.7	135.6	142.4	164.6	164.6
72.5°	301.4	160.3	98.7	89.9	90.2	101.3	113.8	123.7	131.9	150.8	151.2
75°	190.6	125.2	81.1	76.6	77.5	88.0	100.9	111.2	127.6	149.1	149.7
77.5°	101.3	88.0	64.5	63.5	64.5	74.2	88.6	102.9	128.0	129.3	127.2
80°	65.6	62.4	51.0	48.9	49.3	59.8	79.0	97.6	102.9	104.1	99.4
82.5°	35.7	39.6	36.2	34.0	34.0	46.7	67.4	77.6	73.8	61.3	58.5
85°	15.3	18.5	18.8	16.3	15.7	28.8	45.2	42.4	39.4	37.7	37.3
87.5°	4.3	6.1	6.1	4.5	3.4	8.0	9.0	2.6	0.0	0.3	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)