

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: P269098

Luminaire Tested: **GLEON-AF-02-LED-E1-T2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T2-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6840.9 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

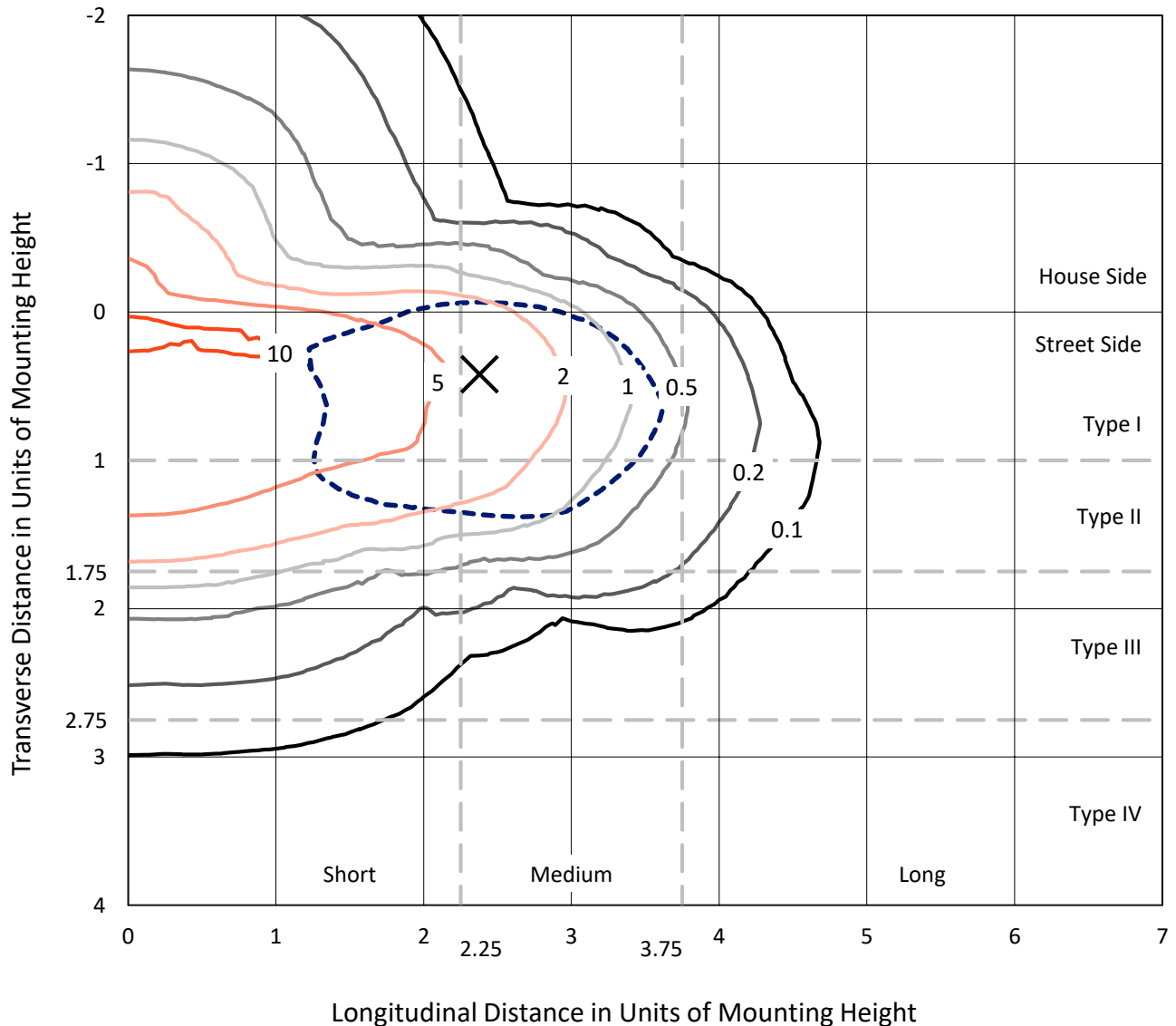
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

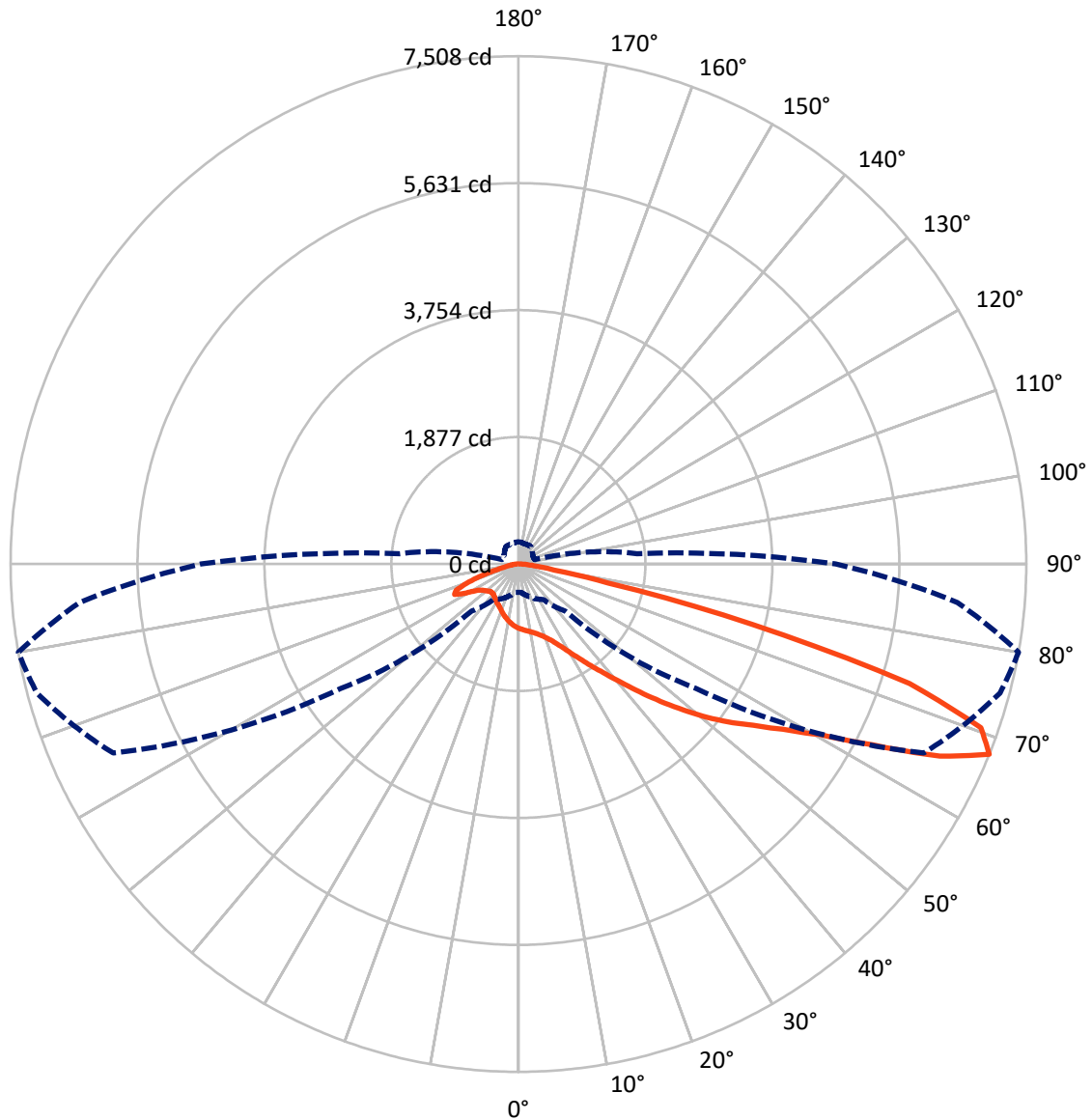


Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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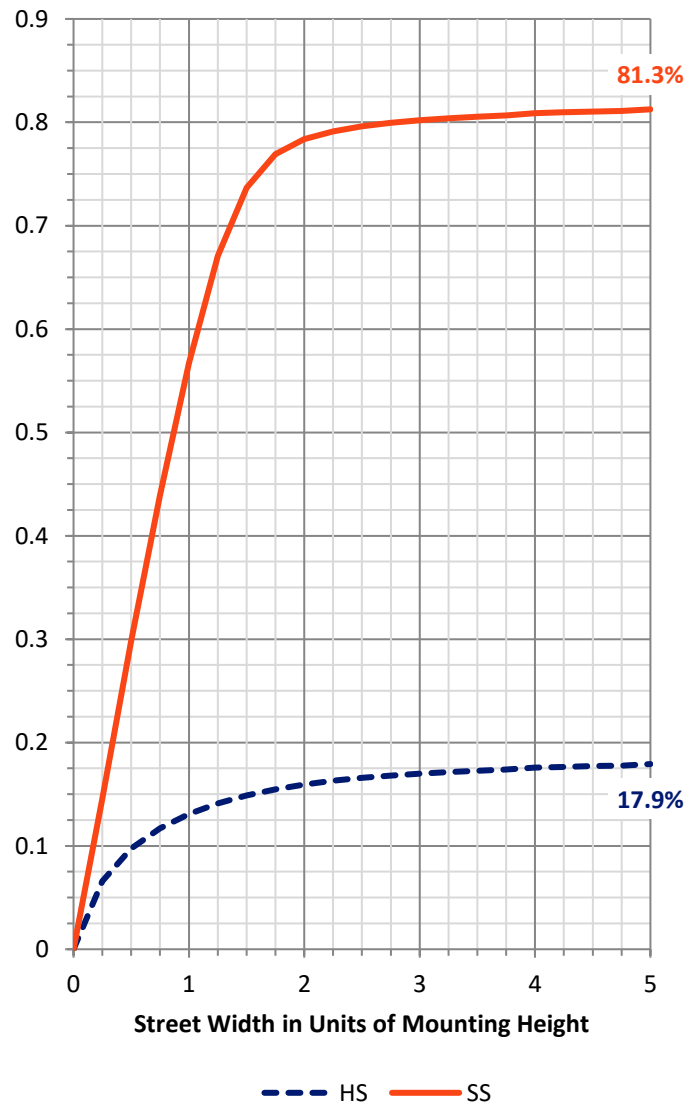
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1259.8	0.0	1259.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	5581.1	0.0	5581.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	6840.9	0.0	6840.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	1.3
10°-20°	252.6	3.7
20°-30°	418.0	6.1
30°-40°	683.8	10.0
40°-50°	1104.1	16.1
50°-60°	1593.9	23.3
60°-70°	1759.0	25.7
70°-80°	810.8	11.9
80°-90°	131.1	1.9
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°	6840.9	100.0
0°-180°	6840.9	100.0



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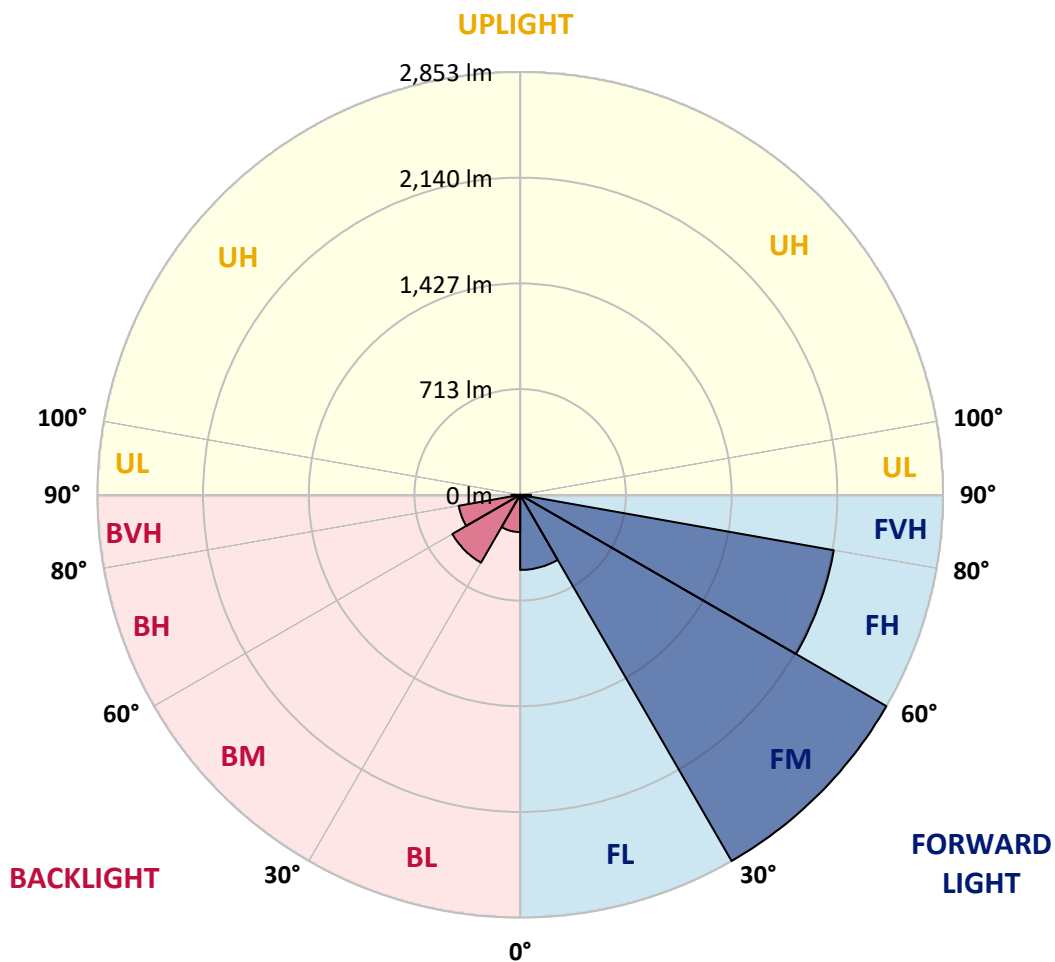
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	506.9	7.4			
FM (30°-60°)	2853.2	41.7			
FH (60°-80°)	2148.9	31.4			G2/5000
FVH (80°-90°)	72.1	1.1			G1/100
BL (0°-30°)	251.4	3.7	B1/500		
BM (30°-60°)	528.6	7.7	B1/1000		
BH (60°-80°)	420.9	6.2	B1/500		G1/500
BVH (80°-90°)	59.0	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3
2.5°	1039.7	1033.6	1034.6	1033.0	1027.9	1019.0	1009.7	992.4	974.7	965.1	957.9
5°	1126.6	1124.9	1122.5	1117.1	1104.2	1086.1	1063.6	1033.2	1000.6	983.5	966.8
7.5°	1191.5	1190.6	1187.5	1184.1	1171.7	1149.8	1115.8	1072.7	1025.1	1001.6	976.0
10°	1196.9	1198.6	1200.9	1210.0	1211.8	1200.0	1165.3	1113.1	1050.7	1020.5	987.7
12.5°	1151.1	1154.9	1163.9	1187.2	1211.8	1226.2	1208.4	1155.5	1080.8	1044.0	1002.6
15°	1090.5	1092.5	1103.7	1135.6	1179.7	1224.6	1241.4	1202.3	1119.5	1074.4	1024.8
17.5°	1064.6	1065.6	1073.4	1094.6	1135.6	1199.6	1260.0	1253.1	1167.0	1112.0	1052.2
20°	1051.5	1053.8	1064.9	1085.8	1111.7	1167.6	1262.6	1308.0	1223.5	1159.3	1086.5
22.5°	1088.8	1087.8	1091.9	1102.3	1124.1	1157.8	1260.6	1364.6	1295.6	1219.8	1131.2
25°	1176.1	1179.7	1172.6	1160.9	1167.9	1191.5	1271.3	1425.9	1385.8	1297.6	1189.8
27.5°	1300.3	1296.7	1286.2	1258.5	1244.2	1254.2	1307.0	1491.9	1498.1	1400.0	1267.2
30°	1424.3	1421.2	1411.1	1377.5	1347.7	1339.5	1376.5	1567.7	1631.7	1522.9	1362.3
32.5°	1552.9	1549.5	1540.1	1506.5	1470.7	1451.2	1475.0	1655.2	1789.3	1669.8	1474.1
35°	1711.5	1705.2	1685.3	1638.5	1603.5	1588.3	1599.4	1765.3	1971.2	1843.5	1609.9
37.5°	1860.7	1870.5	1850.2	1785.7	1740.1	1734.7	1747.3	1899.7	2167.3	2037.8	1765.8
40°	2010.5	2012.4	1994.1	1941.1	1894.4	1885.6	1917.0	2062.8	2398.6	2270.2	1955.4
42.5°	2165.5	2168.9	2138.2	2089.4	2055.1	2056.7	2092.4	2253.8	2664.0	2544.1	2173.5
45°	2349.1	2354.1	2320.4	2256.5	2225.1	2288.2	2273.3	2468.0	2955.0	2855.3	2424.2
47.5°	2541.0	2548.9	2523.2	2463.2	2424.2	2510.8	2454.1	2705.3	3268.2	3189.1	2699.3
50°	2645.8	2656.8	2681.8	2677.4	2669.0	2654.5	2655.8	2959.9	3591.2	3536.5	2982.3
52.5°	2589.5	2589.2	2680.2	2790.6	2908.4	2917.2	2901.7	3228.4	3892.9	3876.4	3248.6
55°	2332.2	2349.7	2487.4	2701.4	3023.3	3224.3	3270.2	3535.9	4189.2	4208.5	3519.1
57.5°	1903.9	1918.3	2104.2	2402.2	2868.4	3406.9	3794.3	3982.8	4520.6	4610.2	3879.2
60°	1291.3	1308.7	1505.7	1863.8	2451.5	3305.3	4293.0	4780.3	4917.4	5121.1	4384.3
62.5°	758.8	774.6	935.2	1175.7	1726.1	2832.6	4511.8	5914.9	5547.6	5892.1	5154.8
65°	522.4	533.1	611.2	731.8	991.8	1907.9	4240.4	6698.3	6517.2	6847.2	6048.3
67.5°	420.2	419.0	481.0	563.1	638.5	983.7	3206.5	6609.6	7369.9	7507.6	6512.1
70°	346.1	344.9	387.0	455.0	510.2	554.1	1746.6	5577.8	7196.1	7251.9	6084.9
72.5°	289.7	291.1	317.9	368.5	418.6	417.3	767.5	3923.8	5660.9	6047.6	4850.7
75°	244.5	245.1	263.1	298.7	339.7	336.1	416.3	2125.7	3290.8	3559.9	2688.8
77.5°	208.1	208.8	220.3	240.1	269.4	268.1	303.7	918.3	1372.7	1355.9	919.8
80°	185.6	185.6	191.0	194.7	210.8	204.8	225.4	441.2	580.2	535.7	367.0
82.5°	145.4	146.2	179.1	177.9	166.0	158.3	158.3	260.0	307.5	284.3	214.9
85°	81.8	81.4	115.5	139.4	146.2	111.5	110.4	145.4	167.4	147.5	104.1
87.5°	35.0	35.8	53.5	62.0	82.9	69.3	68.5	75.1	85.2	73.8	48.1
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°	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3
2.5°	950.8	942.1	922.7	898.8	877.4	863.2	850.3	831.9	832.9	820.1	810.6
5°	950.0	931.9	887.4	834.5	783.7	747.0	719.4	694.5	688.5	676.7	669.5
7.5°	950.8	921.1	846.4	761.9	698.8	652.3	628.8	615.7	612.6	608.6	609.0
10°	953.1	911.3	801.2	693.9	627.7	597.2	591.4	595.4	600.2	601.4	601.9
12.5°	958.5	902.5	751.7	633.1	583.3	573.8	583.7	597.5	606.5	610.9	610.6
15°	970.6	895.8	704.2	585.6	558.7	563.7	581.9	601.4	614.6	620.6	621.0
17.5°	983.7	886.1	655.4	549.4	540.5	553.4	576.0	598.8	615.0	621.6	623.1
20°	1000.9	874.0	604.2	522.0	523.4	537.8	559.0	581.9	599.8	605.5	608.2
22.5°	1023.4	860.8	559.5	499.7	503.8	515.0	531.4	551.3	566.8	569.4	571.9
25°	1053.8	846.7	523.7	479.5	481.2	487.7	498.7	510.5	521.3	518.3	520.7
27.5°	1094.6	834.5	497.1	461.1	458.0	459.4	465.1	468.7	474.6	466.1	467.1
30°	1142.4	821.4	476.6	444.9	436.4	434.2	435.5	437.5	441.8	430.4	428.8
32.5°	1197.9	805.6	457.3	430.7	419.0	414.3	414.8	420.2	437.1	430.1	426.3
35°	1262.6	787.8	437.1	415.2	407.2	400.5	399.7	416.6	466.8	462.4	459.0
37.5°	1338.4	769.8	417.0	397.7	398.4	391.0	388.6	407.8	472.5	455.4	452.9
40°	1434.8	760.4	399.7	379.3	387.7	386.6	381.9	391.8	434.8	403.5	399.4
42.5°	1553.9	761.9	387.0	359.3	374.9	385.6	378.1	378.5	394.0	370.6	366.8
45°	1701.1	777.7	377.8	343.5	360.4	384.7	376.8	371.4	372.8	360.4	358.3
47.5°	1872.8	810.4	371.4	330.3	346.6	380.9	376.5	369.5	366.4	359.7	358.1
50°	2063.9	857.8	366.8	317.9	334.1	374.9	376.8	367.4	364.1	361.4	360.4
52.5°	2251.4	912.0	359.7	307.1	324.3	367.4	377.8	365.4	361.7	359.7	358.7
55°	2460.5	979.7	348.9	298.1	316.3	358.1	377.8	362.3	358.3	358.7	358.3
57.5°	2743.2	1089.1	336.1	290.3	306.5	346.6	371.4	359.1	353.9	354.3	354.7
60°	3184.6	1282.2	320.6	282.5	294.4	333.1	362.7	351.5	346.6	348.0	348.3
62.5°	3834.0	1565.3	300.5	271.1	281.6	318.5	350.6	342.2	337.1	340.5	340.5
65°	4508.9	1815.2	275.5	256.6	268.1	302.8	335.4	330.3	325.4	333.1	332.7
67.5°	4690.4	1759.4	250.5	240.7	254.6	285.2	317.2	314.5	311.8	325.4	324.6
70°	4166.7	1412.5	227.7	224.7	239.8	266.3	297.7	297.7	296.0	306.1	303.7
72.5°	3174.5	1001.6	205.8	207.5	223.0	245.9	276.5	278.8	276.1	281.2	279.3
75°	1699.5	573.2	184.0	188.6	202.1	224.9	253.0	255.3	253.6	253.2	254.3
77.5°	564.8	280.2	160.9	168.4	180.2	203.5	228.3	232.0	228.0	227.4	227.0
80°	251.5	176.2	135.7	145.4	155.9	178.9	202.4	205.4	201.1	207.1	199.3
82.5°	161.7	115.8	108.8	119.6	129.6	154.2	176.4	177.1	173.2	201.1	171.4
85°	78.5	71.8	81.8	91.5	100.4	121.2	146.2	146.6	136.5	124.2	120.0
87.5°	39.0	41.7	54.5	63.3	67.7	83.3	106.4	104.5	100.0	90.9	83.8
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)