

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: P526069

Luminaire Tested: **GALN-SA1A-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3143 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

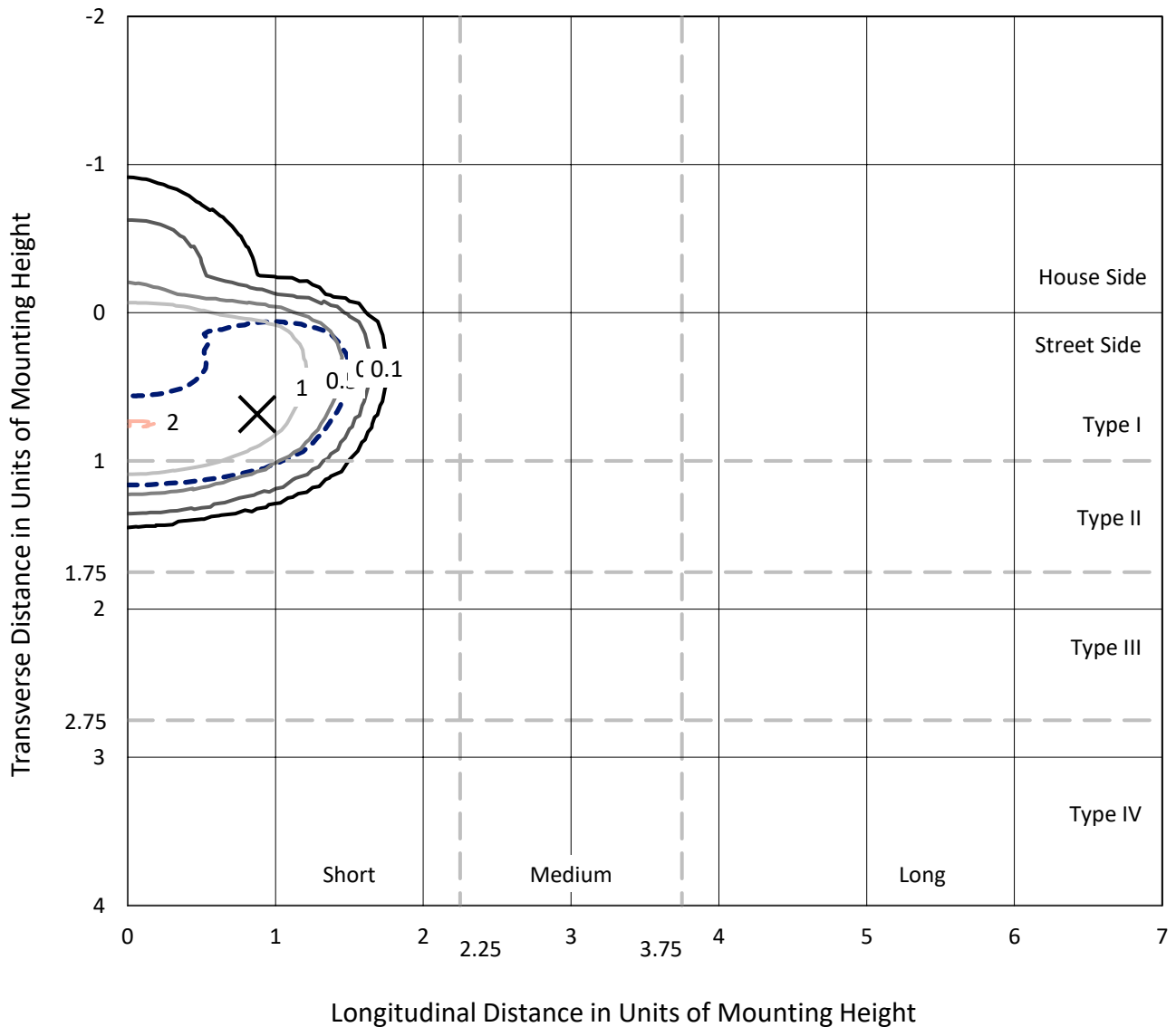
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

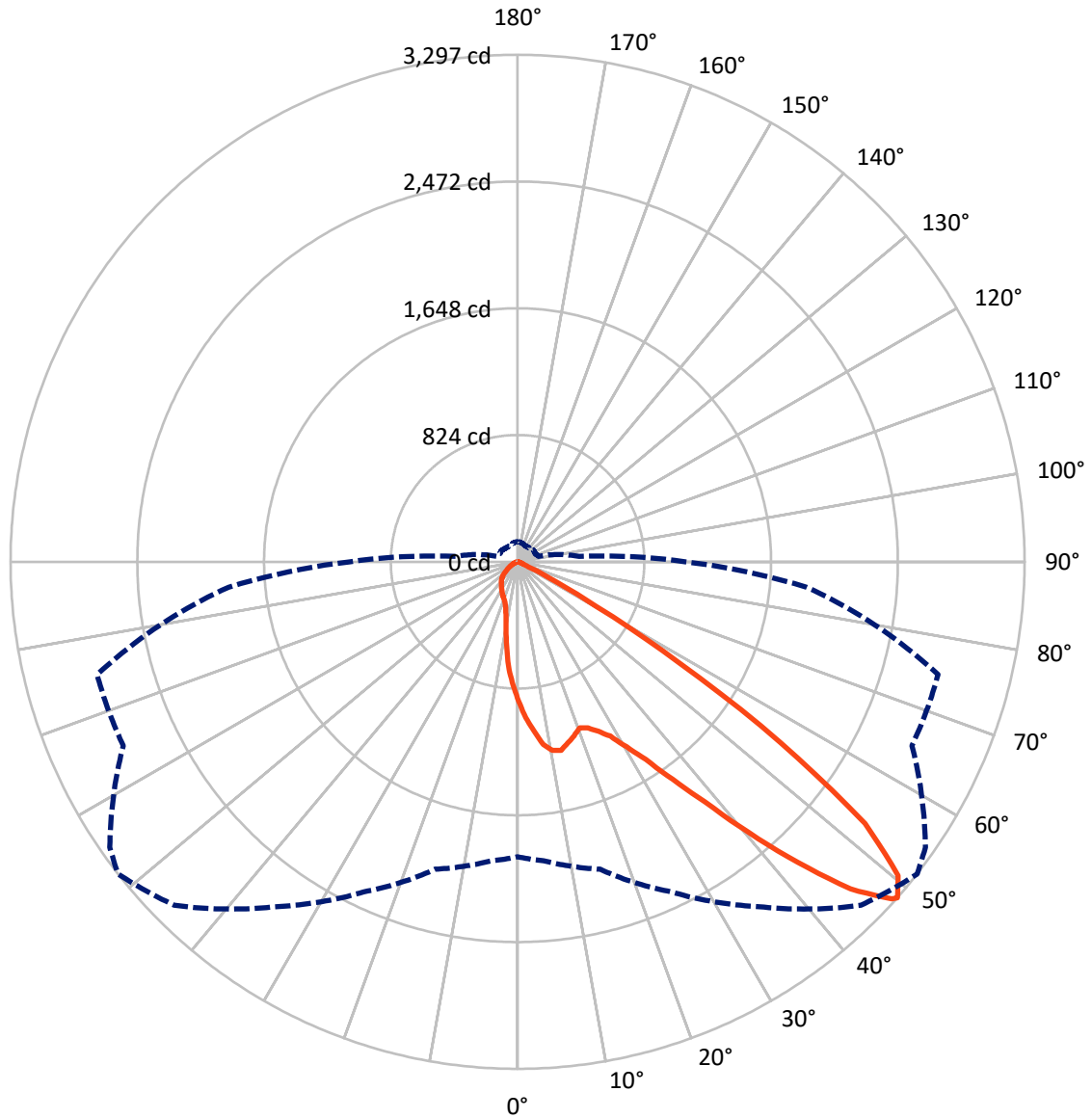
× Max cd
 - - - 1/2 Max cd



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 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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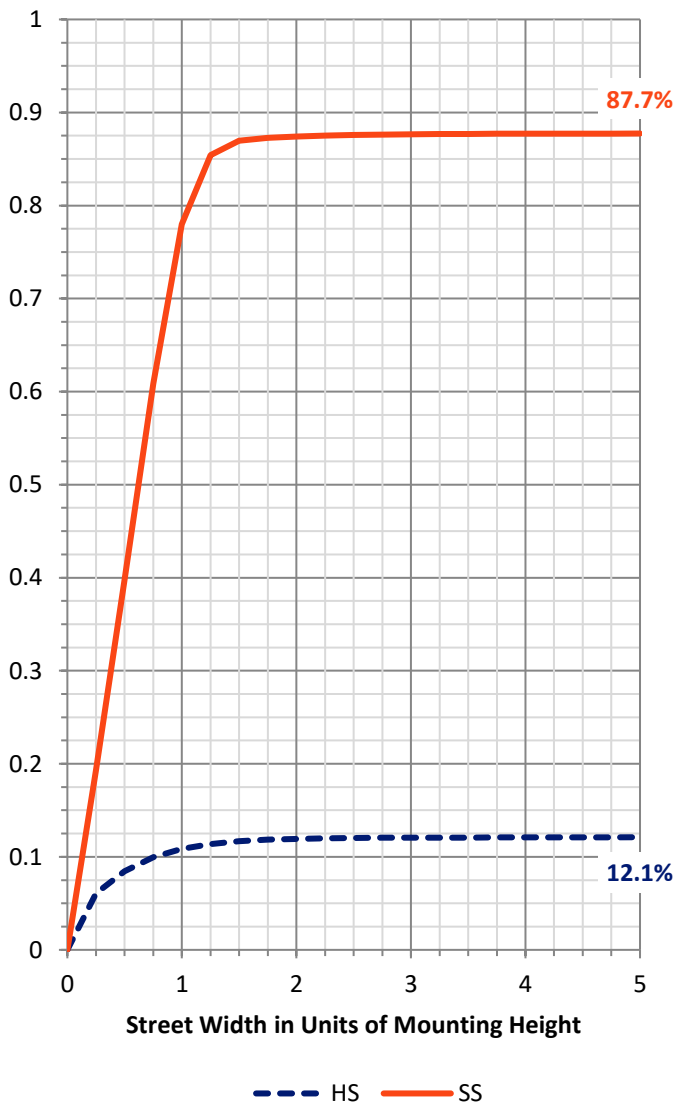
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	382.7	0.0	382.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2760.3	0.0	2760.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	3143.0	0.0	3143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	2.6
10°-20°	217.1	6.9
20°-30°	370.7	11.8
30°-40°	682.6	21.7
40°-50°	1060.1	33.7
50°-60°	638.0	20.3
60°-70°	73.8	2.3
70°-80°	14.3	0.5
80°-90°	3.3	0.1
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°	3143.0	100.0
0°-180°	3143.0	100.0

Coefficient of Utilization

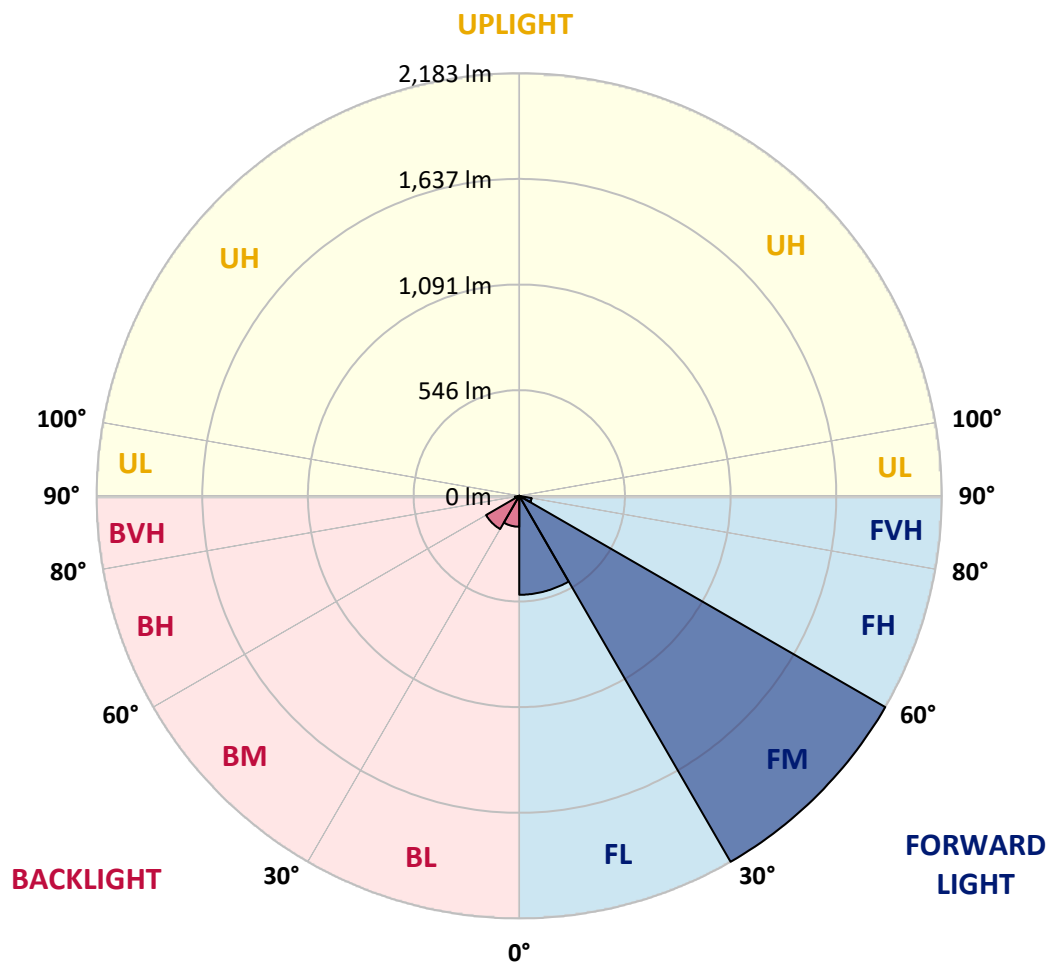


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.0	16.3			
FM (30°-60°)	2182.7	69.4			
FH (60°-80°)	65.0	2.1			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	159.9	5.1	B1/500		
BM (30°-60°)	198.0	6.3	B0/220		
BH (60°-80°)	23.1	0.7	B0/110		G0/110
BVH (80°-90°)	1.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6
2.5°	1100.1	1074.9	1077.2	1060.7	1051.1	1035.5	1014.4	1010.3	987.4	956.2	924.6
5°	1199.0	1193.1	1200.9	1177.1	1178.0	1152.3	1102.8	1103.7	1051.1	1000.2	951.2
7.5°	1205.5	1191.7	1199.5	1220.6	1233.0	1228.4	1200.4	1176.1	1126.2	1051.5	980.0
10°	1079.5	1105.6	1113.8	1148.6	1198.1	1250.4	1247.2	1248.5	1206.8	1109.2	1004.8
12.5°	1003.9	986.5	1014.4	1035.5	1110.2	1211.4	1257.7	1267.8	1271.0	1165.1	1029.5
15°	969.5	969.5	974.1	980.0	1034.1	1127.6	1222.0	1251.3	1320.5	1238.4	1068.5
17.5°	991.0	990.1	996.5	984.2	1004.3	1076.3	1189.0	1222.4	1375.9	1310.4	1099.2
20°	1056.6	1059.8	1055.6	1019.9	1021.3	1075.3	1152.3	1205.0	1413.5	1372.7	1139.9
22.5°	1147.7	1149.6	1126.2	1087.3	1075.8	1102.4	1173.4	1213.7	1443.7	1447.4	1152.3
25°	1253.1	1245.8	1241.2	1186.2	1151.4	1174.3	1221.0	1244.4	1462.5	1511.5	1187.6
27.5°	1399.3	1384.6	1356.7	1307.6	1282.0	1249.4	1282.9	1321.4	1516.1	1601.3	1226.1
30°	1615.1	1602.2	1547.7	1484.5	1417.1	1385.1	1395.6	1416.7	1612.8	1705.3	1276.9
32.5°	1939.9	1912.9	1834.1	1713.6	1621.9	1533.5	1530.8	1553.2	1699.4	1849.2	1337.4
35°	2297.8	2289.5	2173.6	2049.4	1872.1	1735.6	1737.9	1749.8	1865.2	2038.0	1416.7
37.5°	2535.5	2580.9	2507.1	2373.8	2224.9	2029.7	1980.2	1984.4	2092.9	2261.6	1559.6
40°	2719.3	2680.8	2689.5	2658.3	2556.6	2423.7	2314.2	2292.7	2356.4	2509.0	1701.7
42.5°	2639.1	2640.9	2694.5	2768.3	2793.5	2783.9	2672.1	2631.3	2581.8	2711.5	1836.8
45°	2412.8	2459.9	2529.6	2724.8	2896.1	3056.9	3035.0	2967.1	2737.6	2871.8	1914.7
47.5°	2051.7	2049.9	2164.0	2417.8	2798.5	3175.2	3275.0	3227.4	2848.0	2854.0	1898.7
48°	1918.4	1951.4	2069.1	2367.9	2736.7	3157.7	3296.6	3236.6	2829.2	2830.2	1884.9
50°	1418.1	1412.1	1558.7	1925.3	2444.4	2967.1	3205.9	3252.6	2828.8	2709.7	1788.7
52.5°	749.1	774.8	881.5	1210.5	1728.2	2428.3	2827.9	2900.7	2728.9	2512.6	1650.3
55°	318.4	287.7	369.7	546.6	972.2	1622.4	2074.6	2236.8	2307.4	2223.5	1443.7
57.5°	113.6	124.2	143.0	205.7	408.7	887.9	1237.1	1363.1	1598.6	1631.6	983.7
60°	72.8	74.2	80.2	94.4	153.5	342.3	586.9	687.3	794.0	819.7	459.1
62.5°	56.4	56.8	59.6	61.9	72.8	132.9	220.4	261.2	271.2	233.2	120.5
65°	47.2	47.7	48.6	48.6	51.8	62.3	77.0	84.8	82.5	81.6	68.3
67.5°	36.2	37.1	38.9	38.9	40.8	38.0	42.6	45.4	51.3	62.3	58.2
70°	28.4	28.9	30.2	31.2	31.2	27.5	30.7	33.4	37.6	46.3	45.8
72.5°	22.0	22.9	23.8	23.8	22.5	18.8	22.0	24.3	27.0	32.1	31.2
75°	17.0	17.0	17.4	14.2	11.0	9.6	13.3	16.0	20.2	21.1	17.4
77.5°	4.6	5.0	4.6	4.1	4.6	6.9	8.7	10.1	12.8	12.8	11.5
80°	0.0	0.5	1.4	2.7	4.6	6.4	7.8	8.7	10.1	11.0	10.5
82.5°	0.0	0.5	1.4	2.7	4.1	5.0	6.9	7.3	8.2	9.6	9.6
85°	0.0	0.5	0.9	1.8	2.7	3.2	3.2	2.7	2.7	2.3	1.8
87.5°	0.0	0.0	0.5	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.4
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°	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6
2.5°	912.2	898.0	876.5	842.6	810.1	789.0	768.8	746.4	734.0	733.1	726.2
5°	923.2	891.2	839.8	781.6	719.3	665.7	611.7	576.4	544.8	527.4	524.2
7.5°	929.2	887.5	804.6	707.0	600.7	513.2	452.7	408.2	390.8	378.0	377.5
10°	941.6	881.1	751.9	608.0	476.5	388.1	346.4	326.2	316.6	312.9	307.4
12.5°	950.7	869.2	697.8	506.3	376.6	321.6	303.3	298.7	299.2	301.0	298.7
15°	963.5	858.6	625.0	415.6	316.1	289.6	289.6	290.5	296.9	297.8	297.4
17.5°	962.6	838.0	549.8	342.3	279.5	275.8	277.2	285.9	290.0	291.4	288.2
20°	973.6	818.8	472.4	292.3	258.9	264.4	273.5	275.8	280.9	281.8	278.1
22.5°	970.4	770.7	400.4	252.9	243.3	253.8	263.0	265.7	264.4	261.6	261.2
25°	964.5	729.4	334.5	226.8	231.8	243.3	252.0	247.0	244.2	244.7	245.1
27.5°	953.9	677.2	279.9	208.5	216.3	233.2	232.8	230.9	233.7	231.4	233.7
30°	952.1	625.0	235.0	192.0	204.8	217.2	218.1	221.3	224.5	220.4	224.5
32.5°	954.8	567.7	203.0	181.9	197.9	198.4	208.5	211.7	209.4	200.2	201.1
35°	975.9	523.7	179.6	176.4	186.9	187.4	197.0	192.9	182.8	177.3	180.5
37.5°	1020.4	487.0	168.6	171.4	172.3	178.2	178.7	170.4	171.4	170.9	172.7
40°	1077.2	459.1	160.8	166.8	165.9	170.0	153.5	158.1	162.2	163.6	164.5
42.5°	1116.1	438.9	155.8	159.4	157.6	150.3	141.1	145.7	148.9	153.9	154.9
45°	1133.5	422.9	149.8	146.6	146.6	133.3	129.7	130.6	137.9	143.4	142.5
47.5°	1105.1	407.3	139.3	129.7	132.9	121.9	117.8	117.8	125.5	132.4	131.0
48°	1094.1	400.9	139.7	126.0	128.3	120.0	115.9	115.0	123.7	130.1	130.1
50°	1039.6	377.1	127.8	115.9	111.3	110.4	107.7	108.6	114.1	120.0	120.0
52.5°	933.3	325.8	108.1	99.4	91.2	96.7	98.0	96.2	99.0	104.5	104.0
55°	778.9	250.2	86.6	82.5	76.1	82.0	84.8	82.5	79.7	83.8	83.8
57.5°	499.0	134.7	69.2	70.1	63.7	69.6	71.9	66.4	61.4	64.6	64.1
60°	225.0	80.6	56.8	55.4	51.3	58.2	61.9	55.4	48.6	50.9	53.1
62.5°	84.3	57.3	43.1	42.2	41.2	47.7	49.5	44.4	37.6	38.9	39.4
65°	61.9	50.4	34.4	31.2	33.0	37.6	36.7	31.6	27.0	27.0	27.9
67.5°	52.7	44.0	27.9	24.3	24.3	24.7	22.9	20.2	18.8	19.7	20.6
70°	41.2	34.8	22.0	18.8	17.0	15.1	13.3	12.8	11.5	12.8	12.4
72.5°	26.6	23.4	17.0	14.2	12.8	10.5	8.7	8.2	6.9	6.4	6.4
75°	14.2	14.2	13.3	11.5	10.1	8.2	6.9	5.5	3.7	2.7	2.7
77.5°	10.1	11.0	11.9	11.0	9.2	6.9	5.5	3.7	1.8	0.9	0.9
80°	9.6	11.0	11.9	10.5	9.2	6.9	5.0	2.7	1.4	0.5	0.5
82.5°	8.7	10.1	11.0	9.6	8.2	6.0	4.6	2.7	1.4	0.5	0.5
85°	1.8	2.3	2.7	2.7	3.2	4.1	3.2	2.3	0.9	0.5	0.5
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.5	0.5	0.5
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)