

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: P526070

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
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-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3802 lumens
Efficiency: N/A
Efficacy: 115.2 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

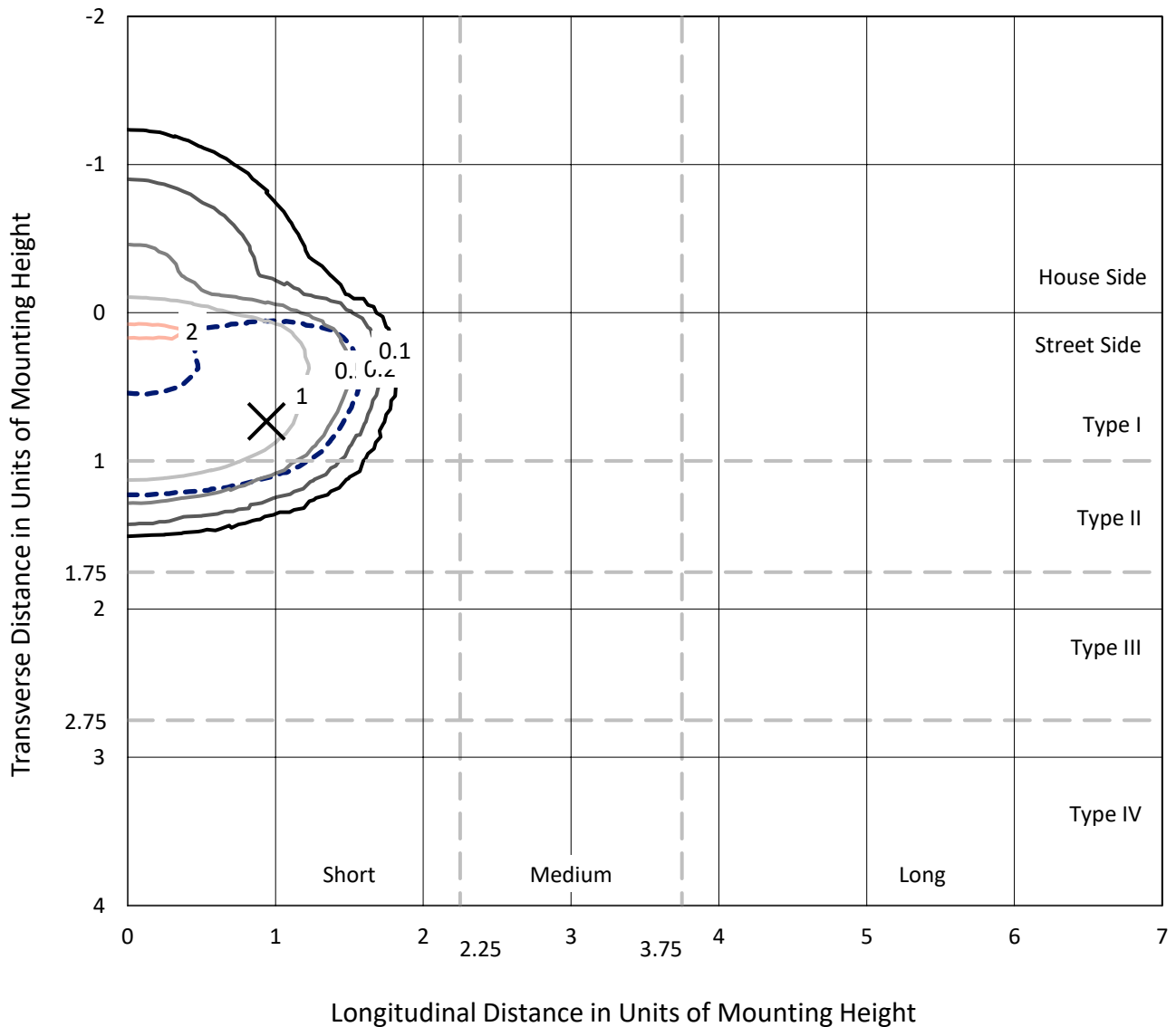
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

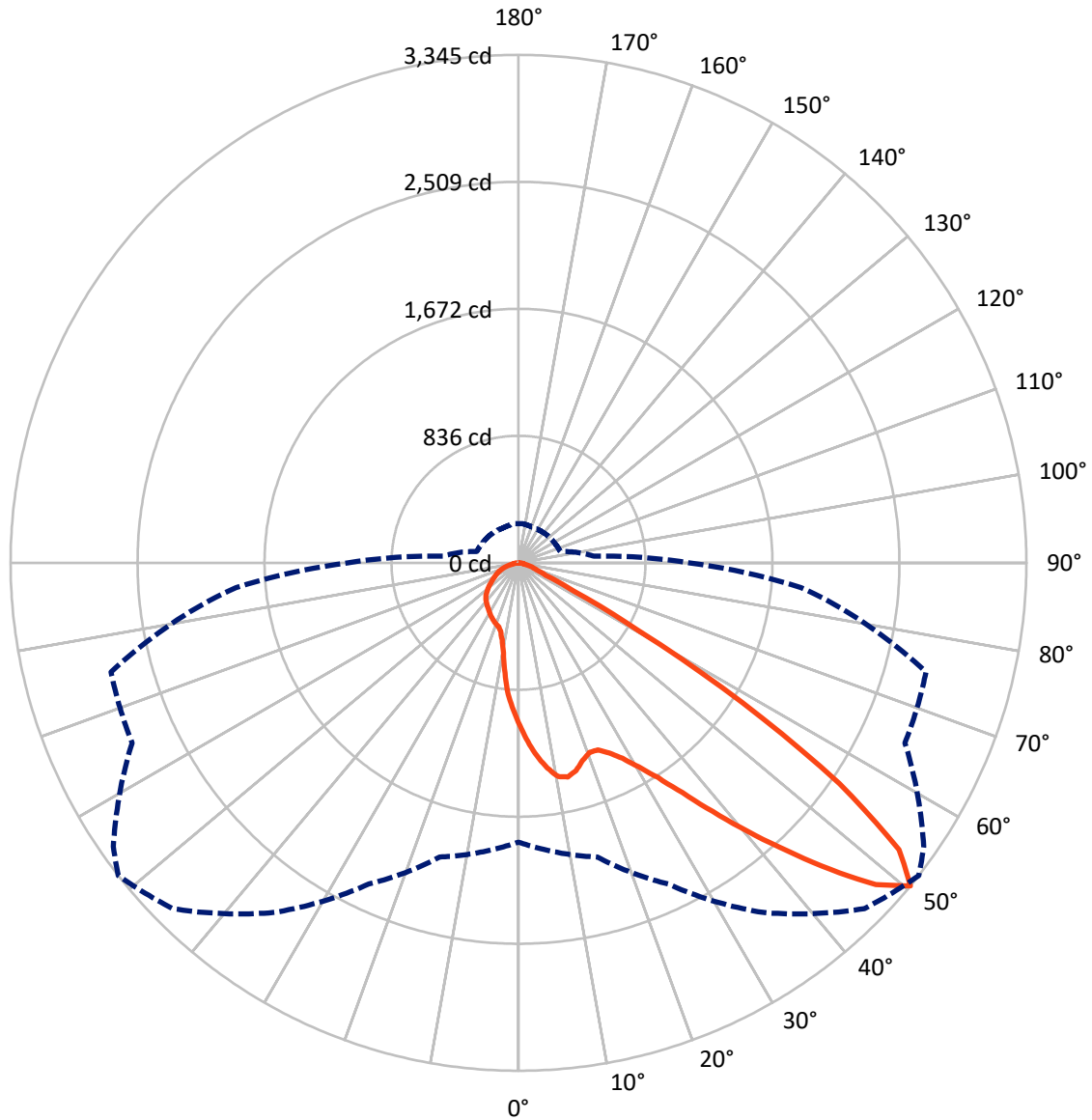
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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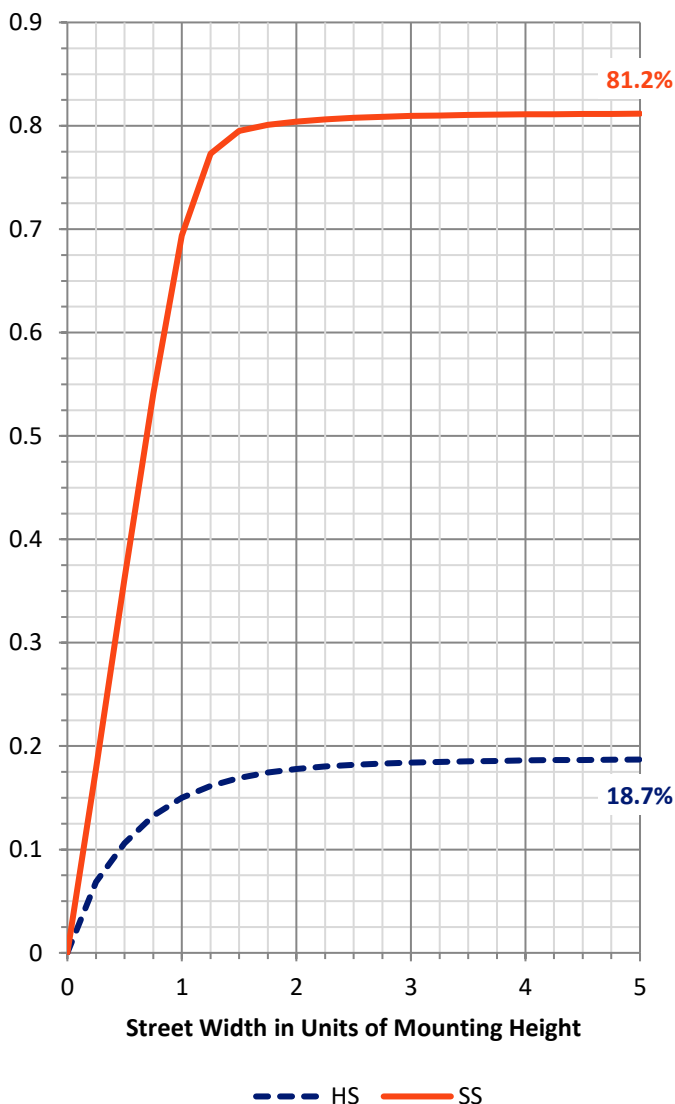
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	714.7	0.0	714.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3087.3	0.0	3087.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	3802.0	0.0	3802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	2.6
10°-20°	264.8	7.0
20°-30°	446.0	11.7
30°-40°	748.4	19.7
40°-50°	1144.8	30.1
50°-60°	834.7	22.0
60°-70°	185.8	4.9
70°-80°	67.0	1.8
80°-90°	11.9	0.3
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°	3802.0	100.0
0°-180°	3802.0	100.0

Coefficient of Utilization

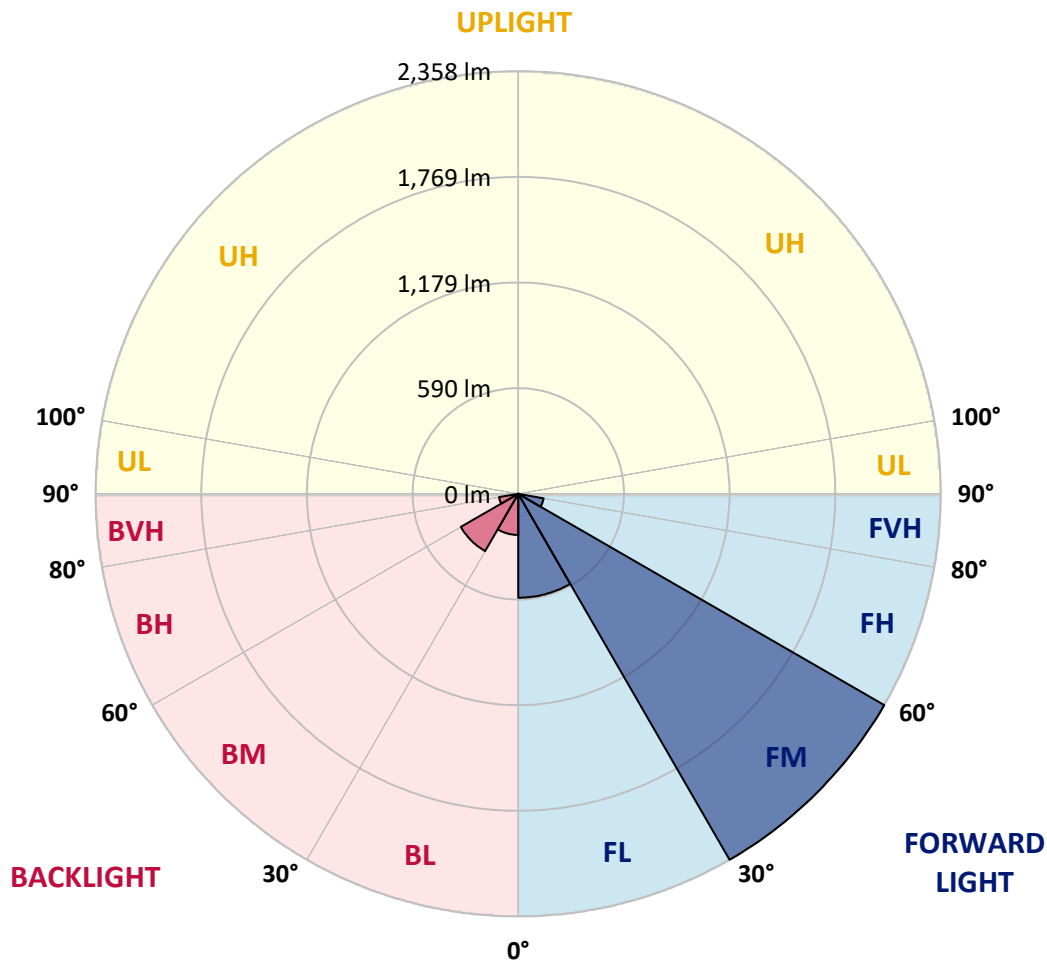


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	579.9	15.3			
FM (30°-60°)	2358.2	62.0			
FH (60°-80°)	143.9	3.8			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	229.6	6.0	B1/500		
BM (30°-60°)	369.7	9.7	B1/1000		
BH (60°-80°)	108.9	2.9	B0/110		G0/110
BVH (80°-90°)	6.5	0.2			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°	1071.7	1071.7	1071.7	1071.7	1071.7	1071.7	1071.7	1071.7	1071.7	1071.7	1071.7
2.5°	1261.9	1237.6	1240.3	1222.9	1204.1	1198.6	1179.4	1161.1	1147.3	1118.0	1091.0
5°	1379.2	1371.8	1360.8	1347.1	1332.9	1298.1	1278.4	1255.5	1205.1	1159.7	1114.8
7.5°	1396.1	1394.7	1400.7	1400.7	1405.7	1392.5	1364.5	1348.5	1294.9	1221.1	1137.7
10°	1277.0	1281.1	1310.0	1347.6	1399.8	1436.0	1431.4	1427.3	1368.6	1267.8	1164.7
12.5°	1182.1	1173.0	1189.9	1222.0	1300.4	1387.9	1447.0	1447.4	1432.3	1342.5	1184.4
15°	1128.5	1135.0	1139.5	1154.7	1213.8	1315.0	1419.0	1449.7	1516.2	1395.2	1215.6
17.5°	1162.9	1141.4	1140.5	1144.1	1174.4	1250.4	1367.3	1419.9	1562.0	1463.0	1254.1
20°	1207.8	1207.3	1194.5	1189.9	1189.5	1257.3	1333.4	1404.8	1586.3	1551.0	1293.0
22.5°	1286.6	1286.6	1265.5	1255.5	1233.9	1289.4	1337.9	1386.5	1626.6	1611.5	1311.8
25°	1418.6	1397.0	1360.8	1336.1	1323.7	1343.4	1386.5	1430.0	1661.9	1675.6	1350.8
27.5°	1540.5	1506.5	1488.7	1446.1	1429.6	1418.1	1457.5	1501.5	1703.1	1775.5	1371.8
30°	1678.8	1672.9	1640.8	1585.8	1545.0	1524.0	1560.2	1603.7	1778.7	1877.7	1420.4
32.5°	1926.3	1872.2	1828.7	1761.3	1694.9	1650.0	1685.7	1714.6	1904.3	1984.4	1473.6
35°	2193.4	2176.0	2100.8	1979.4	1877.7	1837.4	1858.4	1880.0	2050.4	2147.6	1562.9
37.5°	2455.9	2432.1	2370.2	2268.1	2144.4	2062.3	2077.5	2102.7	2214.5	2367.5	1672.0
40°	2644.7	2615.4	2584.2	2569.1	2446.3	2334.1	2325.3	2331.8	2436.2	2573.7	1792.9
42.5°	2658.5	2694.7	2704.3	2765.2	2736.3	2644.2	2590.6	2592.0	2647.9	2777.6	1915.3
45°	2629.6	2596.1	2667.2	2833.5	2928.8	2971.9	2881.6	2870.1	2779.0	2895.8	1976.2
47.5°	2326.7	2335.9	2455.9	2718.9	2994.3	3186.8	3165.7	3127.6	2849.1	2891.7	1966.6
50°	1839.2	1894.6	2006.0	2333.6	2811.0	3220.7	3344.8	3256.9	2807.4	2778.0	1868.5
52.5°	1224.8	1247.7	1321.0	1743.9	2260.3	2878.8	3138.6	3158.8	2768.9	2629.1	1744.4
55°	545.3	543.4	646.5	910.9	1418.1	2190.6	2564.5	2687.3	2620.9	2477.5	1623.4
57.5°	230.9	238.7	280.9	393.6	697.4	1321.9	1737.5	1845.2	2015.6	2034.4	1245.4
60°	156.2	157.2	168.6	197.0	291.9	620.9	911.4	1040.6	1162.4	1154.2	660.7
62.5°	122.8	126.0	134.7	146.2	173.2	281.8	407.8	479.7	487.5	410.1	250.6
65°	104.9	105.4	114.1	123.7	135.6	164.0	196.6	200.2	202.5	195.2	184.2
67.5°	86.6	87.5	94.4	105.4	116.4	125.5	134.7	139.3	149.8	170.4	167.7
70°	68.7	70.1	76.1	85.2	95.3	100.8	112.3	116.4	126.0	142.0	148.5
72.5°	52.2	52.7	57.7	64.1	73.3	78.8	88.4	93.0	99.4	113.2	119.1
75°	37.6	38.9	42.6	45.8	47.2	50.9	60.0	65.1	74.2	80.2	80.6
77.5°	19.7	20.6	21.5	21.5	26.1	33.0	38.9	41.7	48.1	52.7	50.4
80°	7.8	8.2	10.5	14.2	18.3	23.8	27.9	29.3	34.8	37.6	38.9
82.5°	4.6	5.0	6.9	10.1	13.3	17.0	20.2	21.5	25.2	28.4	29.3
85°	2.3	2.7	4.1	6.4	8.7	10.5	10.1	9.6	9.6	9.2	9.6
87.5°	0.9	0.9	1.4	1.4	1.4	1.8	2.3	2.3	2.3	2.7	2.7
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°	1071.7	1071.7	1071.7	1071.7	1071.7	1071.7	1071.7	1071.7	1071.7	1071.7	1071.7
2.5°	1073.1	1054.8	1037.8	1006.7	972.8	963.1	923.7	909.5	899.4	887.5	883.9
5°	1078.6	1054.3	999.8	937.0	887.1	822.9	780.8	735.4	702.4	694.2	691.9
7.5°	1090.0	1048.4	954.4	859.6	757.4	670.3	603.9	568.2	536.5	534.7	531.5
10°	1102.9	1030.5	904.9	756.0	625.4	544.8	504.9	489.4	481.6	479.7	478.8
12.5°	1113.4	1026.8	849.5	655.2	532.0	483.4	471.5	470.1	473.3	474.2	476.1
15°	1118.0	1012.2	782.6	565.0	473.8	455.9	460.9	466.4	468.7	474.7	470.1
17.5°	1126.7	993.4	700.1	493.5	441.2	444.5	453.2	459.6	463.2	467.4	461.4
20°	1131.3	976.4	622.7	450.9	429.8	435.7	447.7	452.7	457.3	459.1	452.2
22.5°	1127.2	941.6	554.4	416.5	418.8	426.6	437.1	442.6	439.9	432.5	428.4
25°	1116.2	892.6	483.4	394.5	403.2	417.0	425.2	421.1	416.0	411.9	410.5
27.5°	1115.7	832.5	432.1	374.3	389.9	408.7	406.0	402.3	404.6	401.4	397.7
30°	1118.0	774.4	389.9	362.9	380.3	389.5	392.7	389.0	391.8	385.8	387.6
32.5°	1106.1	717.5	362.4	349.6	368.8	368.4	378.9	381.7	375.3	362.9	364.7
35°	1111.1	671.7	339.1	343.6	356.0	356.0	364.3	361.1	344.1	336.8	338.6
37.5°	1145.9	626.8	327.6	335.4	343.6	347.3	344.6	330.8	326.7	326.7	327.6
40°	1178.9	588.3	320.7	333.6	332.2	334.5	314.3	315.7	315.7	316.2	313.9
42.5°	1208.3	562.2	315.2	322.6	324.9	312.9	300.6	299.2	302.4	302.0	300.1
45°	1218.8	540.7	307.4	310.2	312.0	292.3	286.4	283.6	287.3	288.7	290.5
47.5°	1178.5	522.8	298.7	293.2	289.6	276.8	269.0	263.9	268.5	276.3	278.1
50°	1126.7	499.4	285.0	274.5	266.7	261.2	255.7	250.6	253.8	259.3	258.0
52.5°	1050.2	462.8	267.6	256.6	243.3	244.7	239.6	236.9	238.7	238.7	237.3
55°	941.1	380.3	238.3	230.5	219.5	223.1	224.1	220.4	216.7	219.9	217.2
57.5°	642.4	268.5	212.6	212.6	201.6	206.6	206.2	197.5	188.8	189.7	187.9
60°	371.6	214.0	196.1	194.3	182.8	186.9	187.9	181.9	168.6	169.5	167.7
62.5°	211.2	182.8	171.4	168.6	166.3	170.0	170.0	162.2	150.7	151.7	149.8
65°	179.6	169.5	153.0	152.6	151.7	152.6	148.9	140.7	130.6	126.5	126.9
67.5°	163.1	156.7	140.7	136.5	133.8	133.3	126.5	118.7	114.1	110.4	110.0
70°	143.0	137.9	126.0	120.5	117.8	111.3	104.5	99.4	93.0	91.2	93.0
72.5°	113.2	112.7	108.1	102.2	96.2	91.2	85.2	78.4	72.4	71.0	67.8
75°	78.4	79.3	80.2	79.3	74.2	67.8	60.9	55.4	48.1	44.0	43.1
77.5°	51.3	52.7	54.1	52.2	49.0	43.1	38.5	31.6	26.1	22.9	22.5
80°	37.6	39.4	40.3	38.9	35.3	30.7	25.7	20.2	16.0	13.3	13.3
82.5°	28.9	30.7	31.6	29.3	25.7	22.0	18.3	14.2	11.0	8.7	8.2
85°	10.1	9.6	11.5	11.9	14.2	13.3	11.0	8.2	6.4	4.6	4.1
87.5°	2.7	2.7	3.2	3.2	2.7	2.3	2.3	2.3	1.8	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

(END OF REPORT)