

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: P450491

Luminaire Tested: **GALN-SA1B-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5636 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

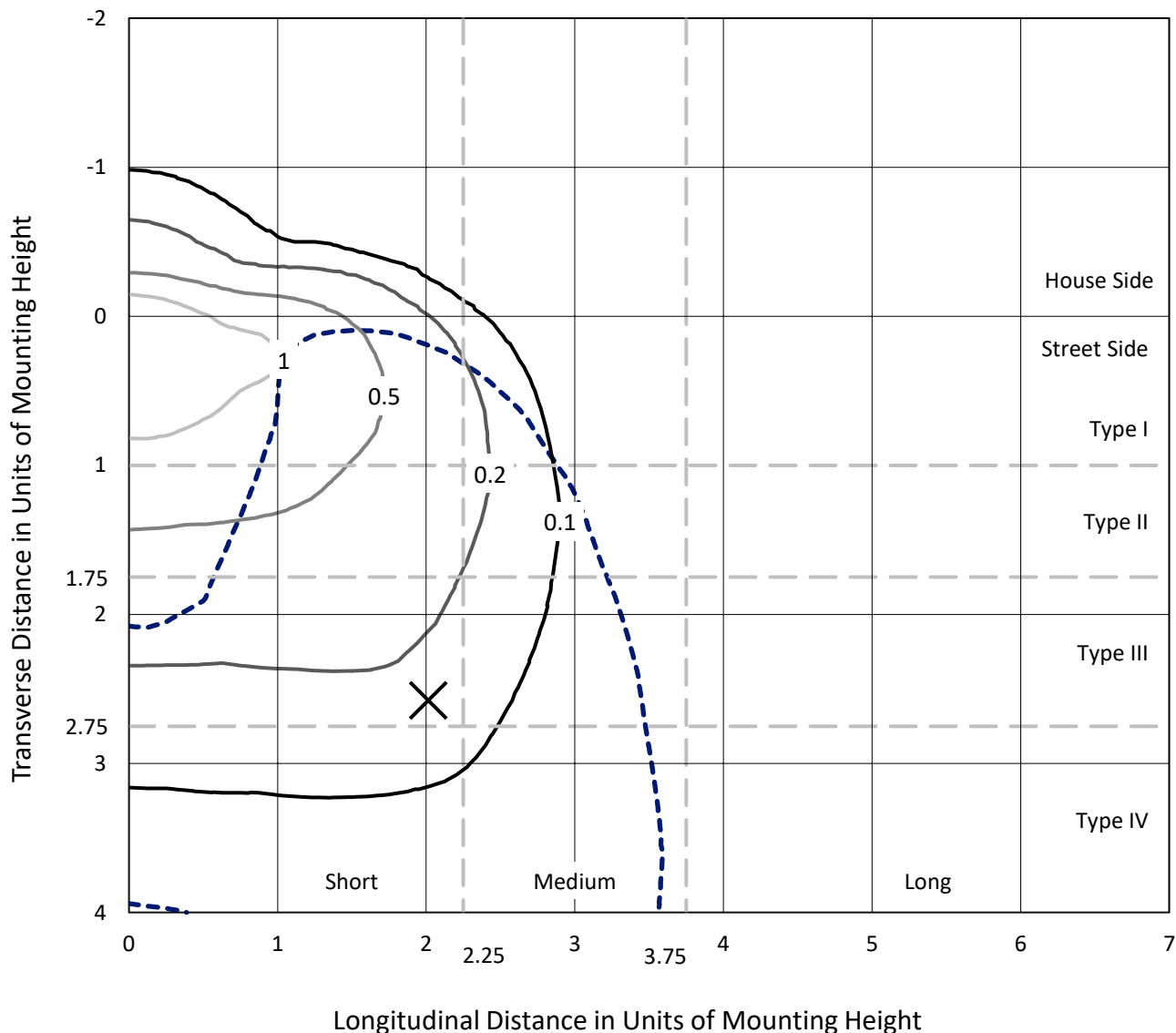
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

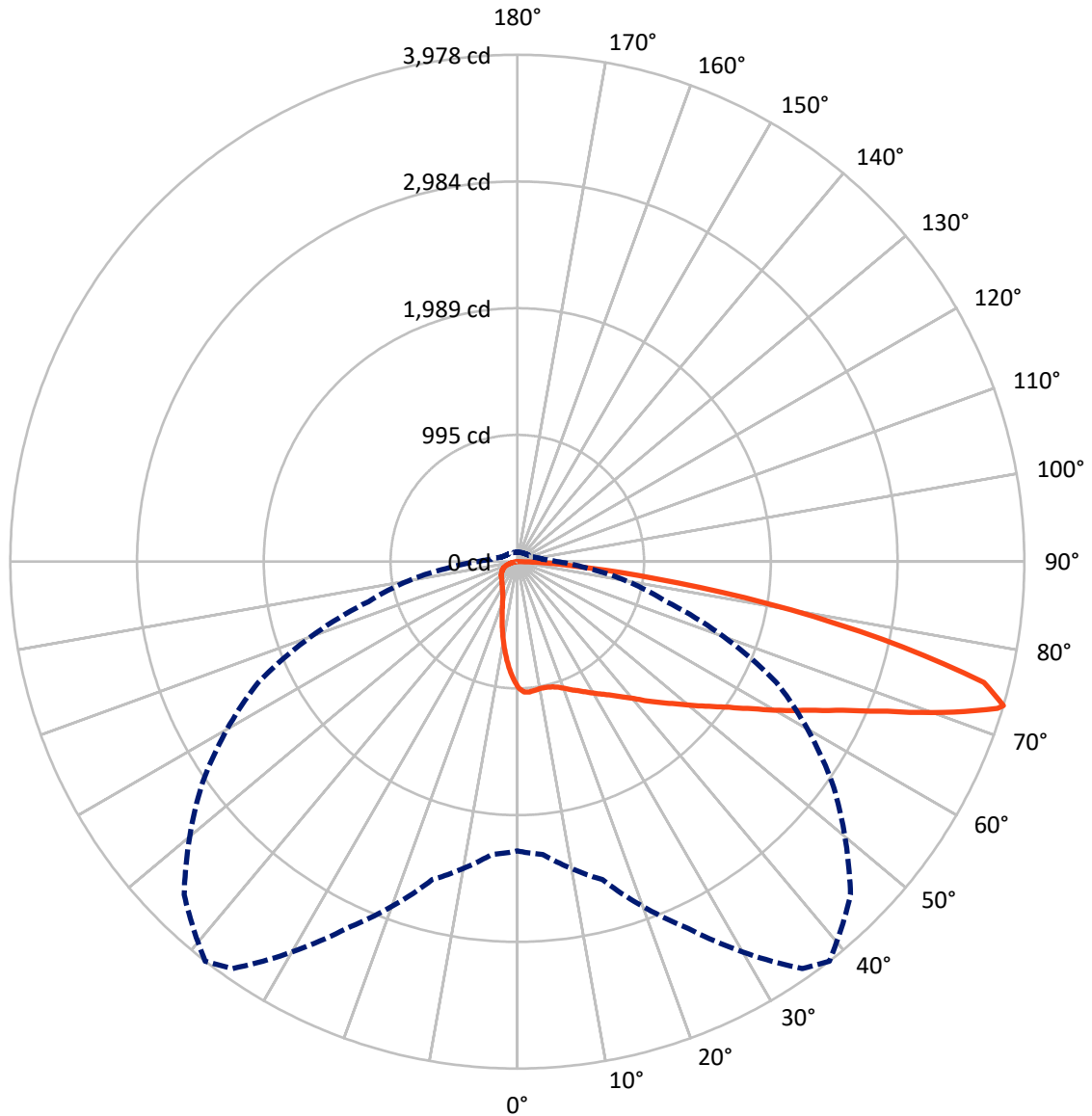
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	757.6	0.0	757.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4878.4	0.0	4878.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	5636.0	0.0	5636.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	1.5
10°-20°	221.6	3.9
20°-30°	345.1	6.1
30°-40°	506.2	9.0
40°-50°	750.9	13.3
50°-60°	1063.9	18.9
60°-70°	1349.6	23.9
70°-80°	1123.4	19.9
80°-90°	188.8	3.3
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°	5636.0	100.0
0°-180°	5636.0	100.0



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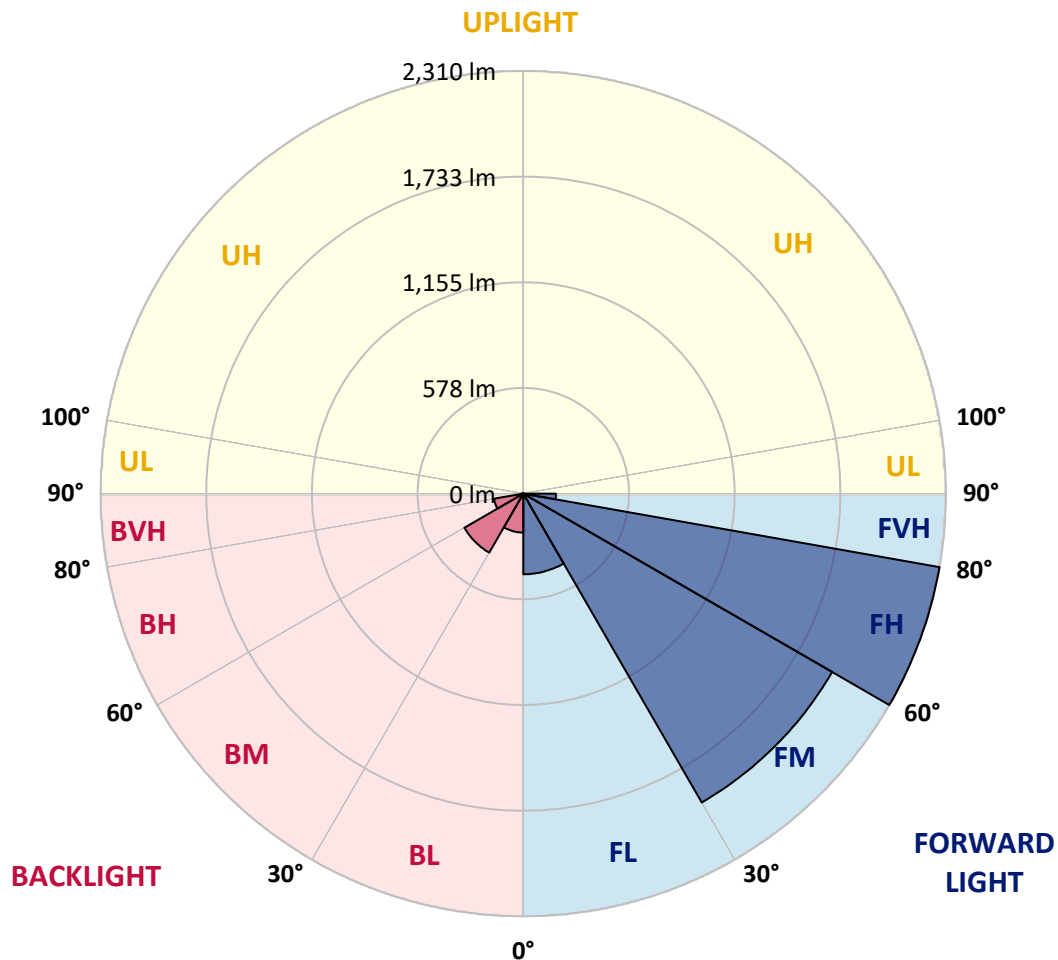
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.6	7.8			
FM (30°-60°)	1949.1	34.6			
FH (60°-80°)	2310.2	41.0			G2/5000
FVH (80°-90°)	178.5	3.2			G2/225
BL (0°-30°)	212.6	3.8	B1/500		
BM (30°-60°)	372.0	6.6	B1/1000		
BH (60°-80°)	162.9	2.9	B1/500		G1/500
BVH (80°-90°)	10.2	0.2			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	990.1	990.1	990.1	990.1	990.1	990.1	990.1	990.1	990.1	990.1	990.1
2.5°	1029.9	1035.0	1032.5	1029.0	1026.8	1024.5	1021.3	1012.1	1004.8	996.8	984.4
5°	1037.6	1040.8	1038.5	1034.1	1029.0	1026.8	1020.7	1008.6	996.8	983.5	965.0
7.5°	1033.1	1034.4	1031.8	1026.4	1022.0	1017.8	1010.8	997.5	983.1	966.9	942.7
10°	1017.2	1022.0	1022.0	1017.5	1013.1	1010.8	1003.8	991.1	978.1	959.6	931.0
12.5°	1004.2	1009.2	1013.4	1012.1	1011.8	1011.8	1006.4	996.8	981.6	964.1	930.0
15°	995.2	1001.3	1010.2	1015.3	1018.5	1019.4	1017.2	1008.9	993.3	973.0	933.8
17.5°	993.3	1000.7	1016.9	1028.0	1036.3	1036.0	1035.3	1023.9	1006.7	985.7	938.6
20°	1001.9	1011.5	1034.1	1051.6	1063.7	1061.4	1057.9	1043.0	1022.9	999.4	943.0
22.5°	1027.7	1037.6	1062.4	1081.5	1093.3	1093.3	1082.8	1063.0	1041.7	1015.3	949.1
25°	1064.6	1075.4	1101.9	1121.3	1126.7	1122.6	1112.0	1088.2	1063.7	1038.2	961.8
27.5°	1109.8	1122.9	1147.4	1163.6	1162.0	1158.8	1148.0	1117.5	1093.0	1069.7	983.5
30°	1166.2	1175.7	1201.2	1205.0	1199.3	1198.6	1183.3	1152.8	1129.9	1112.0	1014.3
32.5°	1219.3	1227.9	1248.3	1249.9	1239.7	1240.9	1226.6	1198.6	1185.6	1179.2	1066.2
35°	1275.6	1280.1	1297.6	1295.7	1289.0	1288.1	1282.3	1255.6	1259.7	1271.2	1139.7
37.5°	1322.7	1331.7	1341.5	1343.1	1342.8	1346.0	1349.8	1337.1	1360.9	1396.9	1236.2
40°	1366.0	1373.7	1388.3	1393.4	1405.8	1412.2	1425.2	1425.5	1480.6	1539.8	1354.9
42.5°	1395.3	1408.4	1435.7	1445.0	1475.2	1494.3	1513.7	1534.4	1614.3	1690.4	1494.9
45°	1420.8	1438.0	1483.5	1512.1	1553.2	1576.4	1617.5	1660.8	1775.6	1875.3	1637.2
47.5°	1459.3	1474.6	1526.8	1577.4	1639.4	1666.2	1727.6	1792.2	1942.4	2051.6	1773.4
50°	1512.8	1522.0	1575.1	1657.6	1736.8	1771.2	1852.4	1945.6	2120.7	2225.7	1893.1
52.5°	1581.2	1585.0	1627.3	1737.1	1841.5	1884.2	1991.8	2100.6	2276.6	2376.9	1987.9
55°	1662.0	1655.7	1688.8	1821.5	1961.2	2016.9	2132.4	2257.5	2452.0	2499.1	2057.0
57.5°	1741.9	1732.0	1758.5	1924.0	2108.9	2176.0	2310.7	2419.2	2608.6	2613.3	2105.4
60°	1826.6	1819.3	1850.8	2044.3	2290.0	2369.5	2494.0	2586.9	2760.1	2692.9	2113.0
62.5°	1913.5	1901.7	1946.6	2179.5	2494.0	2566.2	2686.9	2765.2	2908.7	2722.5	2039.5
65°	1997.8	1992.4	2061.8	2340.3	2726.3	2808.4	2925.6	2978.7	3027.7	2678.0	1857.1
67.5°	2087.6	2098.4	2209.1	2554.8	3029.3	3132.5	3258.8	3208.8	3061.8	2466.9	1564.0
70°	2224.4	2231.4	2402.6	2835.8	3419.9	3544.3	3605.4	3290.6	2897.6	2066.2	1175.7
72.5°	2283.3	2314.2	2575.5	3130.9	3863.5	3939.6	3721.9	3108.3	2413.8	1403.6	617.8
73°	2270.2	2307.2	2583.4	3175.7	3898.2	3978.1	3697.1	3014.4	2243.8	1208.8	529.6
75°	2107.6	2153.1	2480.0	3138.2	3830.7	3783.0	3298.0	2569.1	1516.3	549.7	241.3
77.5°	1663.0	1676.0	1965.0	2534.1	3016.6	2928.1	2468.2	1605.7	619.4	204.3	136.9
80°	834.2	882.3	1107.6	1451.6	2017.2	1988.3	1558.0	759.4	258.1	120.0	90.7
82.5°	401.3	435.4	539.5	707.8	1114.6	1088.2	771.5	415.0	163.9	70.0	53.5
85°	258.4	283.9	343.4	337.7	458.3	437.6	346.6	314.1	97.1	36.6	37.2
87.5°	170.6	186.8	224.1	179.2	166.8	150.9	153.1	177.0	19.1	14.0	5.1
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°	990.1	990.1	990.1	990.1	990.1	990.1	990.1	990.1	990.1	990.1	990.1
2.5°	979.3	975.2	961.5	948.1	935.4	923.3	915.4	904.9	897.9	899.8	902.6
5°	954.8	945.6	921.4	897.9	875.6	849.2	827.8	810.6	797.6	792.8	791.9
7.5°	929.0	913.4	878.8	838.3	800.5	767.7	729.8	711.0	689.1	681.4	678.9
10°	913.4	892.4	843.7	787.4	730.4	676.0	635.0	601.5	571.3	565.6	562.7
12.5°	909.0	881.3	815.7	743.2	667.4	600.6	539.8	495.9	466.6	459.9	450.0
15°	906.4	872.1	789.6	698.6	602.5	521.0	457.0	405.8	379.1	361.2	361.6
17.5°	904.2	861.6	760.4	649.9	546.5	452.6	381.9	335.8	311.3	301.7	300.8
20°	901.0	849.2	726.6	598.7	482.5	390.2	326.2	291.9	275.3	267.3	267.0
22.5°	899.8	837.1	693.5	546.5	425.9	342.1	289.3	265.1	254.6	249.2	249.2
25°	902.9	828.5	658.8	496.8	375.6	301.1	263.8	247.3	241.3	238.4	237.4
27.5°	912.8	824.6	624.5	447.2	329.4	273.1	246.7	235.2	230.7	228.5	228.8
30°	931.6	824.3	590.7	398.2	295.0	251.8	233.0	225.0	221.5	220.2	219.9
32.5°	961.8	831.3	557.6	357.7	266.1	233.9	220.2	214.5	212.9	212.0	211.7
35°	1013.1	851.1	524.8	320.8	243.8	218.0	208.2	205.3	203.1	204.0	204.3
37.5°	1082.1	885.1	493.6	291.9	226.9	206.2	198.0	195.4	194.1	195.1	196.1
40°	1174.7	934.1	467.5	268.6	214.8	196.4	189.1	186.8	185.6	187.1	187.5
42.5°	1276.9	990.8	445.9	250.5	205.0	188.1	181.1	178.6	177.6	178.6	178.9
45°	1381.9	1056.7	434.8	237.4	196.7	182.1	174.7	171.9	169.6	169.0	170.0
47.5°	1485.4	1114.0	434.4	229.5	190.0	176.6	168.7	165.5	162.6	161.0	160.7
50°	1569.7	1159.5	442.1	226.0	184.3	170.6	162.6	159.5	155.6	152.5	153.1
52.5°	1633.4	1189.1	445.6	224.4	181.1	164.2	156.3	153.4	149.0	144.8	144.8
55°	1674.4	1196.1	437.0	222.8	178.6	157.5	149.0	146.4	142.0	137.8	137.8
57.5°	1688.4	1174.4	406.1	219.0	176.0	151.8	141.6	139.4	135.9	131.8	131.1
60°	1656.0	1101.2	352.0	207.5	170.9	145.8	133.7	132.7	131.4	127.9	127.6
62.5°	1530.9	945.9	293.1	192.6	162.3	139.4	126.4	127.9	128.9	127.0	126.7
65°	1322.7	768.0	250.5	171.9	150.9	130.5	118.4	122.5	125.1	125.1	124.4
67.5°	1072.9	589.8	211.0	154.0	136.5	118.4	109.5	112.7	114.6	113.9	115.5
70°	762.6	399.4	171.9	133.7	118.4	104.7	98.0	98.0	96.8	96.1	96.1
72.5°	369.8	228.2	139.4	111.7	100.9	89.4	84.0	81.8	79.3	78.9	77.3
73°	309.0	204.7	133.0	107.6	96.8	87.2	81.2	77.7	76.1	74.8	74.5
75°	188.1	155.3	111.1	90.7	82.4	75.1	69.7	66.5	64.9	64.0	63.7
77.5°	123.8	115.9	86.3	69.4	63.0	58.6	56.3	53.2	52.2	50.9	50.9
80°	92.3	88.5	61.7	49.0	45.2	41.4	40.7	40.1	37.6	36.0	35.3
82.5°	59.5	63.0	42.0	32.8	28.6	25.5	25.8	26.7	24.2	22.0	21.3
85°	42.3	45.5	25.5	15.0	12.1	10.5	11.8	10.5	10.8	8.6	7.0
87.5°	7.0	12.1	4.5	1.9	1.0	0.6	0.0	0.0	0.0	0.0	0.0
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)