

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: P450723

Luminaire Tested: **GALN-SA1C-740-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450723  
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-SA1C-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA 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: 6963 lumens  
Efficiency: N/A  
Efficacy: 122.2 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

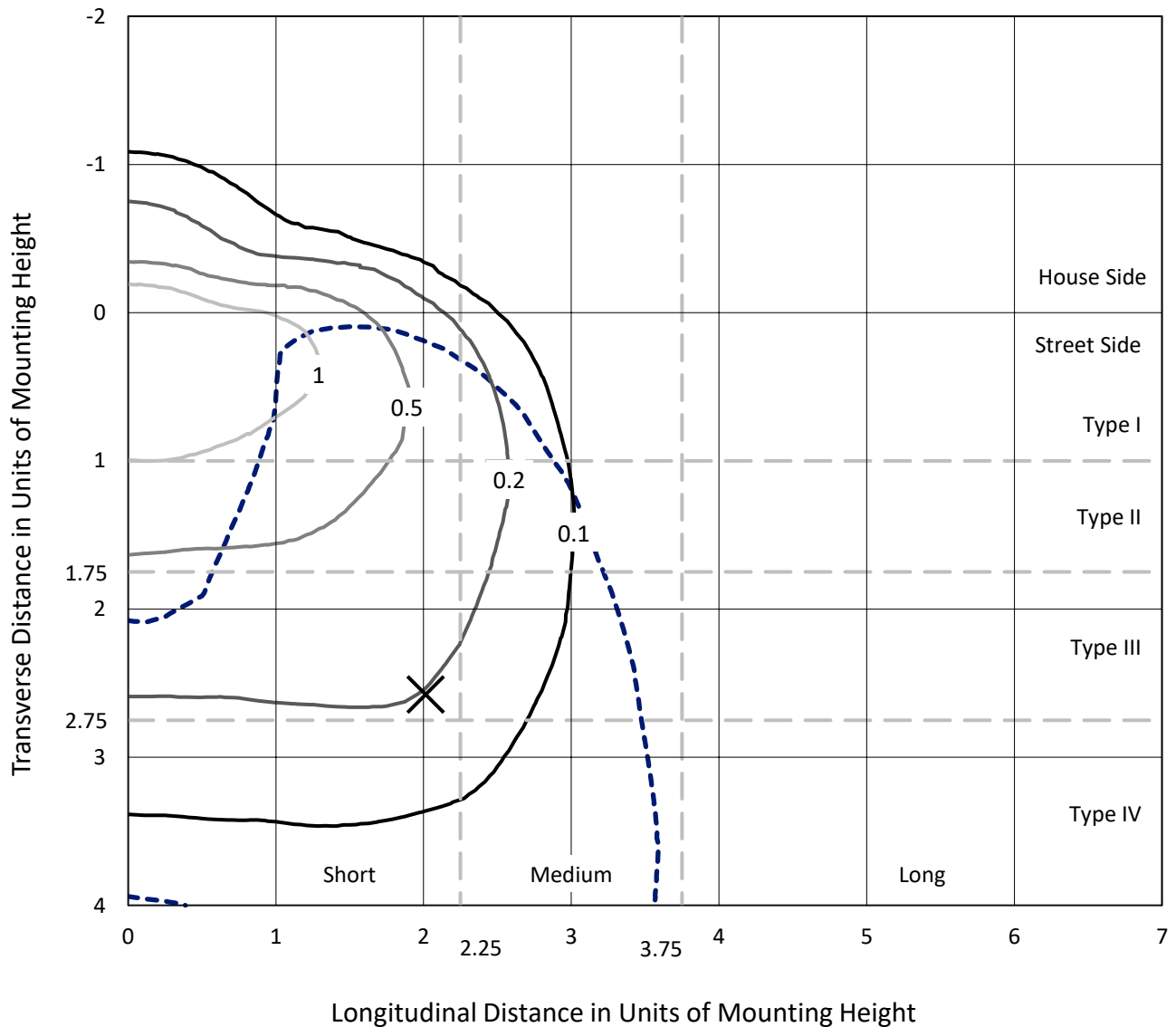
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

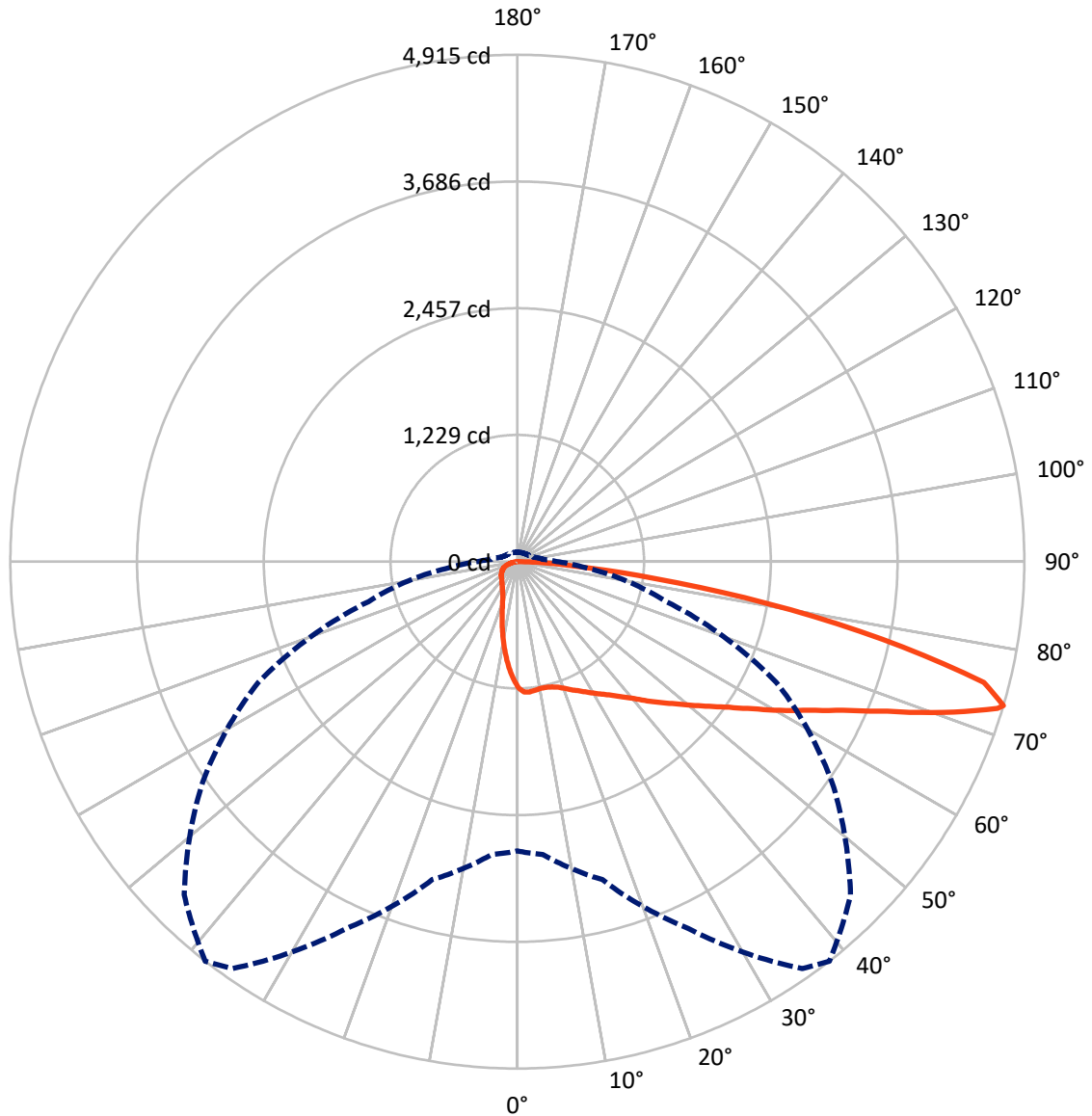
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type 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
<b>House Side</b>	Lumens	936.0	0.0	936.0
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	6027.0	0.0	6027.0
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	6963.0	0.0	6963.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.8	1.5
10°-20°	273.8	3.9
20°-30°	426.4	6.1
30°-40°	625.4	9.0
40°-50°	927.7	13.3
50°-60°	1314.4	18.9
60°-70°	1667.4	23.9
70°-80°	1387.9	19.9
80°-90°	233.2	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°	6963.0	100.0
0°-180°	6963.0	100.0

**Coefficient of Utilization**



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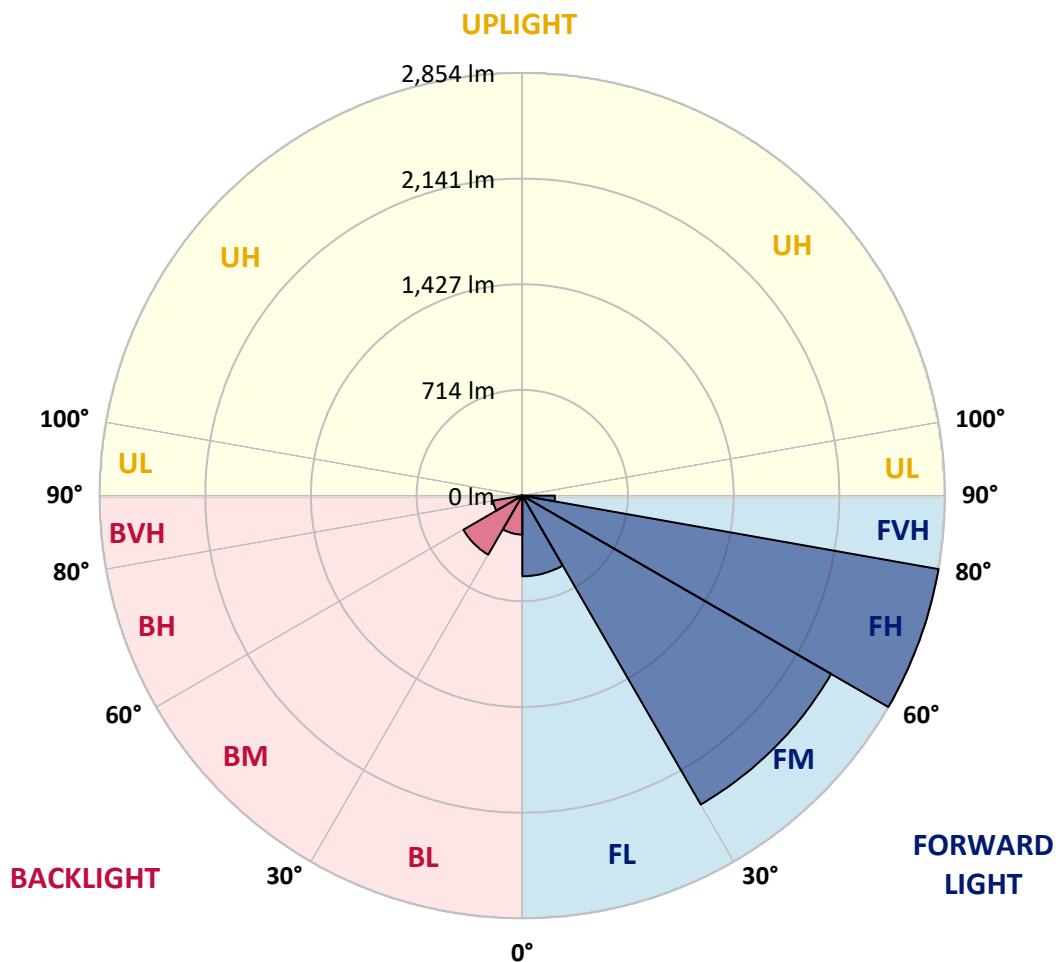
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	544.3	7.8			
FM	(30°-60°)	2408.0	34.6			
FH	(60°-80°)	2854.1	41.0			G2/5000
FVH	(80°-90°)	220.5	3.2			G2/225
BL	(0°-30°)	262.7	3.8	B1/500		
BM	(30°-60°)	459.5	6.6	B1/1000		
BH	(60°-80°)	201.2	2.9	B1/500		G1/500
BVH	(80°-90°)	12.6	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°	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3
2.5°	1272.4	1278.7	1275.6	1271.3	1268.5	1265.7	1261.8	1250.4	1241.4	1231.5	1216.2
5°	1281.9	1285.8	1283.0	1277.5	1271.3	1268.5	1261.0	1246.1	1231.5	1215.0	1192.2
7.5°	1276.4	1277.9	1274.8	1268.1	1262.6	1257.5	1248.8	1232.3	1214.6	1194.6	1164.7
10°	1256.7	1262.6	1262.6	1257.1	1251.6	1248.8	1240.2	1224.5	1208.3	1185.5	1150.1
12.5°	1240.6	1246.9	1252.0	1250.4	1250.0	1250.0	1243.3	1231.5	1212.7	1191.0	1149.0
15°	1229.6	1237.0	1248.1	1254.3	1258.3	1259.5	1256.7	1246.5	1227.2	1202.0	1153.7
17.5°	1227.2	1236.3	1256.3	1270.1	1280.3	1279.9	1279.1	1265.0	1243.7	1217.8	1159.6
20°	1237.8	1249.6	1277.5	1299.2	1314.1	1311.4	1307.0	1288.6	1263.8	1234.7	1165.1
22.5°	1269.7	1281.9	1312.5	1336.1	1350.7	1350.7	1337.7	1313.3	1287.0	1254.3	1172.6
25°	1315.3	1328.7	1361.3	1385.3	1392.0	1386.9	1373.9	1344.4	1314.1	1282.7	1188.3
27.5°	1371.1	1387.3	1417.5	1437.6	1435.6	1431.7	1418.3	1380.6	1350.3	1321.6	1215.0
30°	1440.7	1452.5	1484.0	1488.7	1481.6	1480.8	1462.0	1424.2	1395.9	1373.9	1253.2
32.5°	1506.4	1517.0	1542.2	1544.1	1531.6	1533.1	1515.4	1480.8	1464.7	1456.8	1317.3
35°	1576.0	1581.5	1603.1	1600.8	1592.5	1591.3	1584.2	1551.2	1556.3	1570.5	1408.1
37.5°	1634.2	1645.2	1657.4	1659.4	1659.0	1662.9	1667.6	1651.9	1681.4	1725.8	1527.2
40°	1687.7	1697.1	1715.2	1721.5	1736.8	1744.7	1760.8	1761.2	1829.2	1902.4	1673.9
42.5°	1723.8	1740.0	1773.8	1785.2	1822.5	1846.1	1870.1	1895.7	1994.4	2088.3	1846.9
45°	1755.3	1776.5	1832.8	1868.1	1918.9	1947.6	1998.3	2051.8	2193.7	2316.8	2022.7
47.5°	1802.9	1821.7	1886.2	1948.8	2025.4	2058.5	2134.4	2214.2	2399.8	2534.6	2191.0
50°	1868.9	1880.3	1946.0	2047.8	2145.8	2188.2	2288.5	2403.7	2620.0	2749.7	2338.8
52.5°	1953.5	1958.2	2010.5	2146.1	2275.1	2327.8	2460.7	2595.2	2812.6	2936.5	2456.0
55°	2053.4	2045.5	2086.4	2250.3	2423.0	2491.8	2634.5	2789.0	3029.3	3087.5	2541.3
57.5°	2152.0	2139.9	2172.5	2377.0	2605.4	2688.4	2854.7	2988.8	3222.8	3228.7	2601.1
60°	2256.6	2247.6	2286.5	2525.6	2829.2	2927.5	3081.2	3196.0	3409.9	3327.0	2610.5
62.5°	2364.0	2349.4	2404.9	2692.7	3081.2	3170.5	3319.5	3416.2	3593.6	3363.5	2519.7
65°	2468.2	2461.5	2547.2	2891.3	3368.3	3469.7	3614.4	3680.1	3740.6	3308.5	2294.4
67.5°	2579.1	2592.4	2729.3	3156.3	3742.6	3870.0	4026.1	3964.4	3782.7	3047.8	1932.2
70°	2748.2	2756.8	2968.4	3503.5	4225.1	4378.8	4454.3	4065.4	3579.8	2552.7	1452.5
72.5°	2820.9	2859.0	3181.9	3868.0	4773.2	4867.2	4598.2	3840.1	2982.1	1734.1	763.2
73°	2804.8	2850.4	3191.7	3923.5	4816.1	4914.8	4567.5	3724.1	2772.1	1493.4	654.3
75°	2603.8	2660.1	3063.9	3877.1	4732.7	4673.7	4074.5	3174.0	1873.3	679.1	298.1
77.5°	2054.5	2070.7	2427.7	3130.8	3726.9	3617.5	3049.4	1983.8	765.2	252.4	169.1
80°	1030.6	1090.0	1368.4	1793.4	2492.2	2456.4	1924.8	938.2	318.9	148.2	112.1
82.5°	495.8	537.9	666.5	874.5	1377.0	1344.4	953.1	512.7	202.5	86.5	66.1
85°	319.3	350.7	424.3	417.2	566.2	540.7	428.2	388.1	119.9	45.2	46.0
87.5°	210.8	230.8	276.8	221.4	206.0	186.4	189.1	218.6	23.6	17.3	6.3
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°	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3
2.5°	1209.9	1204.8	1187.9	1171.4	1155.6	1140.7	1130.9	1117.9	1109.2	1111.6	1115.1
5°	1179.6	1168.2	1138.3	1109.2	1081.7	1049.1	1022.7	1001.5	985.4	979.5	978.3
7.5°	1147.8	1128.5	1085.7	1035.7	988.9	948.4	901.6	878.4	851.3	841.9	838.7
10°	1128.5	1102.6	1042.4	972.8	902.4	835.2	784.5	743.2	705.8	698.7	695.2
12.5°	1123.0	1088.8	1007.8	918.1	824.6	742.0	666.9	612.6	576.4	568.2	556.0
15°	1119.9	1077.4	975.6	863.1	744.3	643.7	564.7	501.3	468.3	446.3	446.7
17.5°	1117.1	1064.4	939.4	802.9	675.1	559.1	471.9	414.8	384.6	372.8	371.6
20°	1113.2	1049.1	897.7	739.6	596.1	482.1	403.0	360.6	340.1	330.3	329.9
22.5°	1111.6	1034.1	856.8	675.1	526.1	422.7	357.4	327.5	314.6	307.9	307.9
25°	1115.5	1023.5	813.9	613.8	464.0	372.0	326.0	305.5	298.1	294.5	293.3
27.5°	1127.7	1018.8	771.5	552.5	407.0	337.4	304.7	290.6	285.1	282.3	282.7
30°	1150.9	1018.4	729.8	491.9	364.5	311.0	287.8	278.0	273.7	272.1	271.7
32.5°	1188.3	1027.1	688.9	442.0	328.7	289.0	272.1	265.0	263.1	261.9	261.5
35°	1251.6	1051.4	648.4	396.4	301.2	269.3	257.2	253.6	250.9	252.0	252.4
37.5°	1336.9	1093.5	609.9	360.6	280.4	254.8	244.6	241.4	239.9	241.0	242.2
40°	1451.3	1154.1	577.6	331.9	265.4	242.6	233.6	230.8	229.2	231.2	231.6
42.5°	1577.6	1224.1	550.9	309.5	253.2	232.4	223.7	220.6	219.4	220.6	221.0
45°	1707.3	1305.5	537.1	293.3	243.0	224.9	215.9	212.3	209.6	208.8	210.0
47.5°	1835.1	1376.2	536.7	283.5	234.7	218.2	208.4	204.5	200.9	199.0	198.6
50°	1939.3	1432.5	546.2	279.2	227.7	210.8	200.9	197.0	192.3	188.3	189.1
52.5°	2018.0	1469.0	550.5	277.2	223.7	202.9	193.1	189.5	184.0	178.9	178.9
55°	2068.7	1477.7	539.9	275.2	220.6	194.6	184.0	180.9	175.4	170.3	170.3
57.5°	2086.0	1451.0	501.7	270.5	217.4	187.6	175.0	172.2	167.9	162.8	162.0
60°	2045.9	1360.5	434.9	256.4	211.2	180.1	165.1	164.0	162.4	158.1	157.7
62.5°	1891.3	1168.6	362.1	237.9	200.5	172.2	156.1	158.1	159.3	156.9	156.5
65°	1634.2	948.8	309.5	212.3	186.4	161.2	146.3	151.4	154.5	154.5	153.7
67.5°	1325.5	728.6	260.7	190.3	168.7	146.3	135.3	139.2	141.6	140.8	142.7
70°	942.1	493.5	212.3	165.1	146.3	129.4	121.1	121.1	119.5	118.7	118.7
72.5°	456.9	281.9	172.2	138.0	124.6	110.5	103.8	101.1	97.9	97.5	95.6
73°	381.8	252.8	164.4	132.9	119.5	107.7	100.3	95.9	94.0	92.4	92.0
75°	232.4	191.9	137.2	112.1	101.8	92.8	86.1	82.2	80.2	79.0	78.6
77.5°	153.0	143.1	106.6	85.7	77.9	72.4	69.6	65.7	64.5	62.9	62.9
80°	114.0	109.3	76.3	60.6	55.8	51.1	50.3	49.5	46.4	44.4	43.6
82.5°	73.5	77.9	51.9	40.5	35.4	31.5	31.9	33.0	29.9	27.1	26.3
85°	52.3	56.2	31.5	18.5	14.9	13.0	14.5	13.0	13.4	10.6	8.7
87.5°	8.7	14.9	5.5	2.4	1.2	0.8	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)