

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: P450999

Luminaire Tested: **GALN-SA1D-750-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450999  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-750-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7810 lumens  
Efficiency: N/A  
Efficacy: 120.2 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

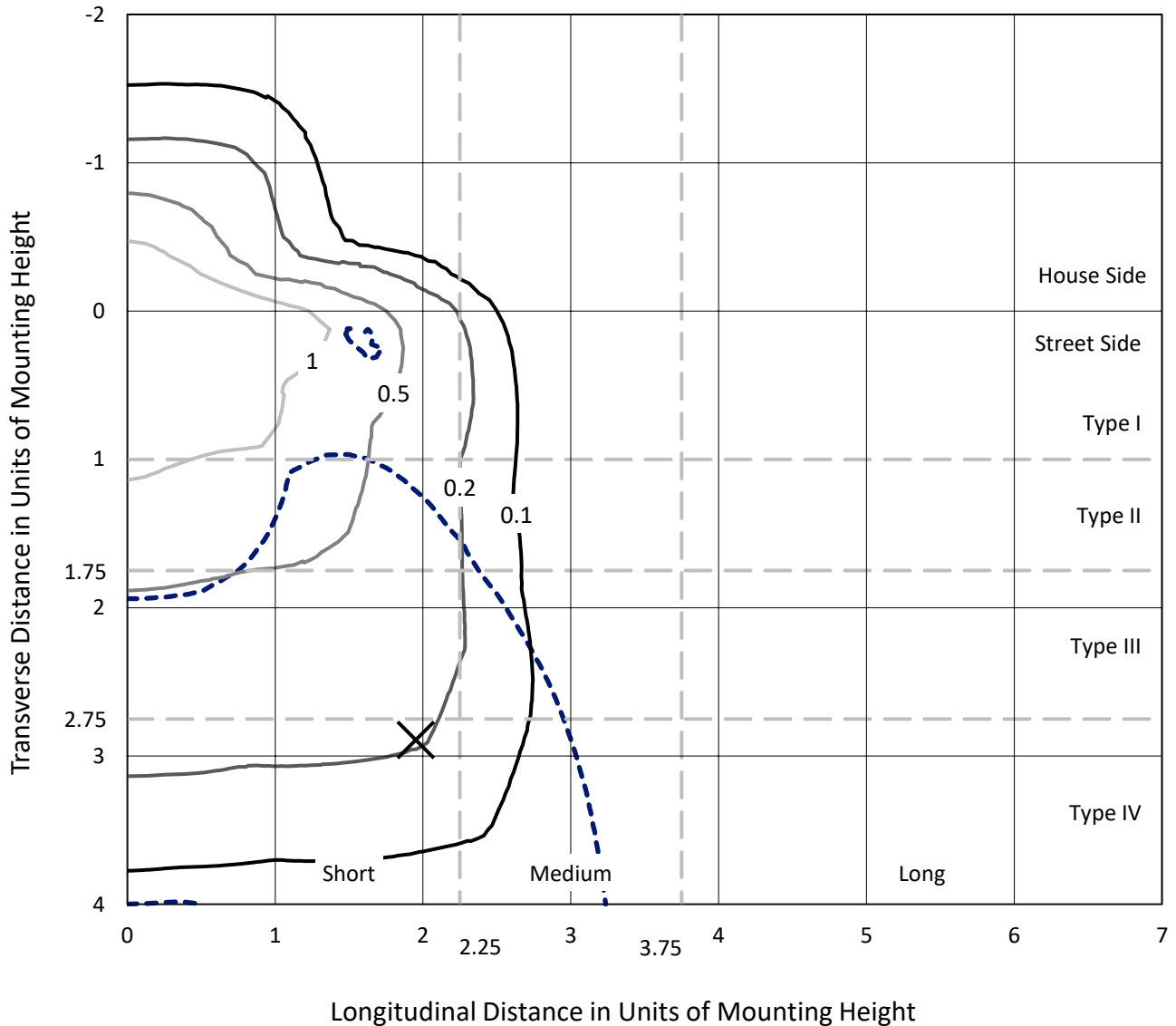
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

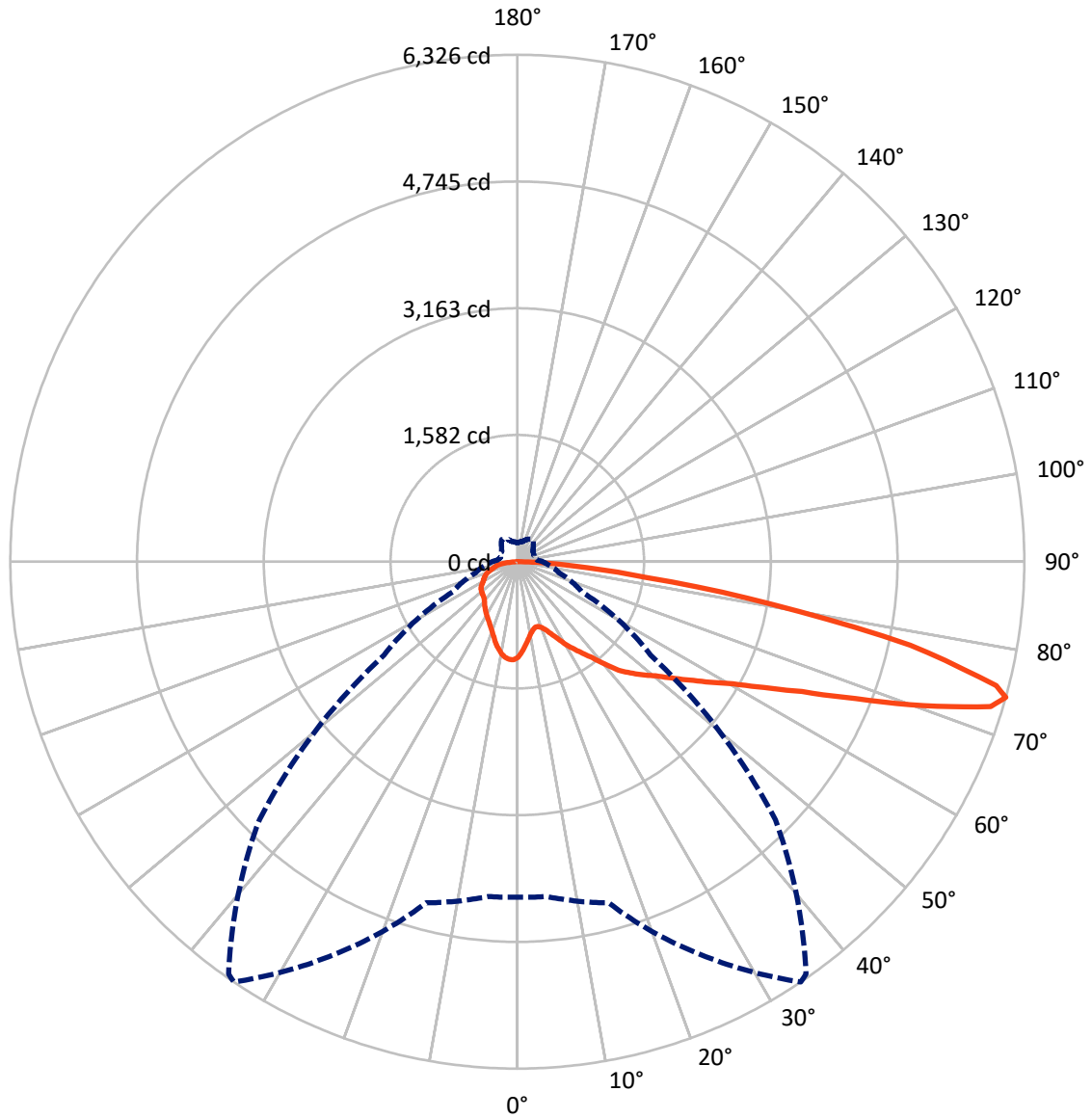
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1662.0	0.0	1662.0
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	6148.0	0.0	6148.0
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	7810.0	0.0	7810.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.4	1.4
10°-20°	296.9	3.8
20°-30°	489.5	6.3
30°-40°	733.2	9.4
40°-50°	1065.8	13.6
50°-60°	1488.7	19.1
60°-70°	1863.7	23.9
70°-80°	1541.2	19.7
80°-90°	222.7	2.9
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°	7810.0	100.0
0°-180°	7810.0	100.0

**Coefficient of Utilization**



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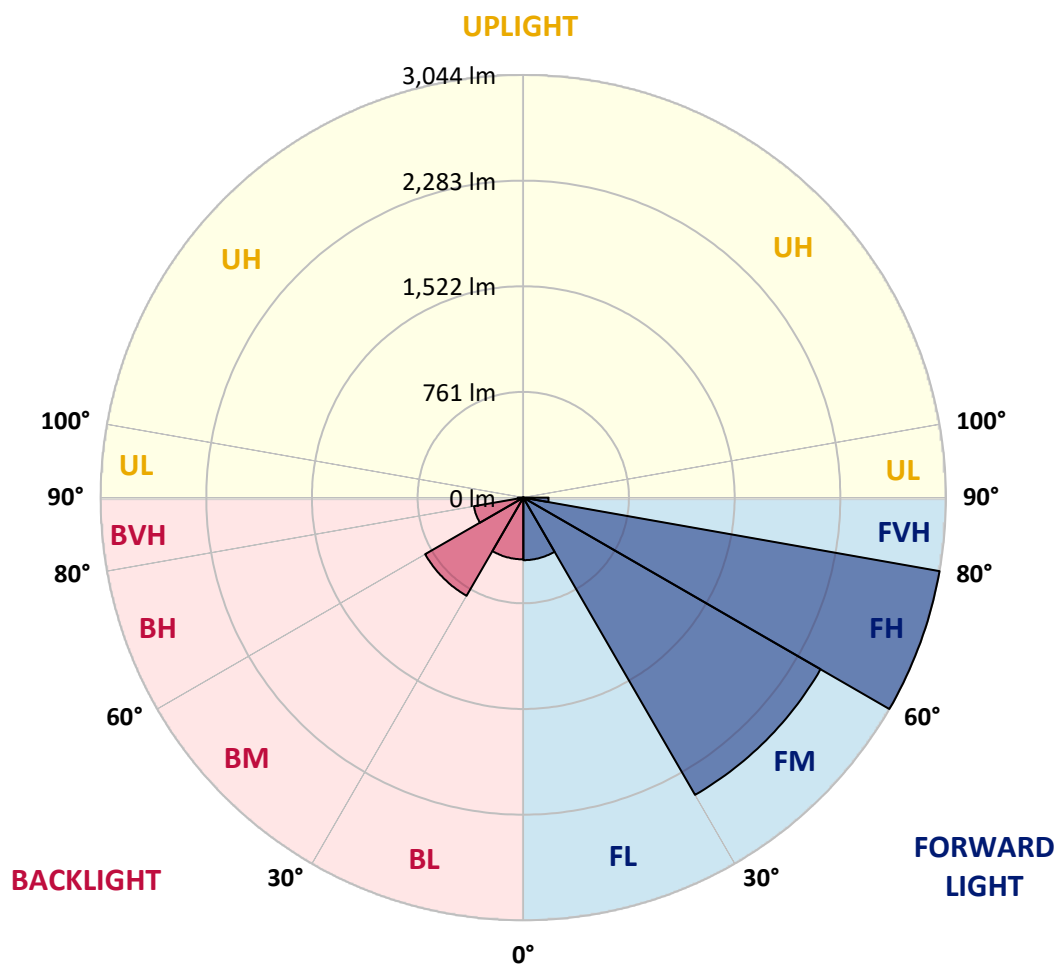
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.2	5.8			
FM	(30°-60°)	2471.4	31.6			
FH	(60°-80°)	3043.9	39.0			G2/5000
FVH	(80°-90°)	182.4	2.3			G2/225
BL	(0°-30°)	444.6	5.7	B1/500		
BM	(30°-60°)	816.2	10.5	B1/1000		
BH	(60°-80°)	361.0	4.6	B1/500		G1/500
BVH	(80°-90°)	40.3	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	1192.4	1192.4	1192.4	1192.4	1192.4	1192.4	1192.4	1192.4	1192.4	1192.4	1192.4
2.5°	1102.0	1107.6	1110.7	1121.5	1124.1	1127.5	1136.6	1148.7	1164.3	1178.2	1190.3
5°	1010.3	1018.9	1024.1	1033.6	1052.2	1054.0	1078.2	1105.9	1137.5	1166.9	1191.1
7.5°	923.3	932.8	937.2	954.5	979.1	983.0	1018.5	1062.2	1115.0	1159.5	1196.8
10°	858.0	862.7	872.3	885.2	914.7	917.3	963.6	1022.0	1090.3	1156.1	1206.3
12.5°	822.5	825.1	827.3	841.1	870.1	874.0	922.4	988.6	1070.9	1158.7	1221.9
15°	827.7	828.6	819.0	821.6	845.0	850.6	898.7	966.6	1058.7	1165.2	1245.2
17.5°	871.4	868.4	845.0	832.9	849.3	851.9	893.9	957.9	1053.1	1177.3	1269.4
20°	940.2	935.9	895.6	868.8	878.3	880.5	909.5	964.4	1058.7	1197.2	1307.1
22.5°	1025.9	1024.1	963.1	930.7	930.2	930.2	945.4	987.8	1075.6	1224.4	1346.5
25°	1145.7	1136.6	1057.0	1015.0	1003.4	1002.5	1000.8	1026.3	1097.2	1253.4	1393.2
27.5°	1268.6	1253.0	1182.0	1117.6	1092.5	1089.5	1078.2	1080.8	1124.9	1286.3	1446.4
30°	1378.9	1369.0	1302.3	1230.9	1201.1	1194.2	1163.0	1148.7	1171.2	1345.6	1531.2
32.5°	1463.3	1457.2	1405.3	1340.4	1296.3	1295.0	1249.5	1237.9	1243.5	1417.4	1628.1
35°	1531.6	1533.8	1507.4	1451.2	1400.5	1393.2	1362.9	1348.2	1331.8	1521.3	1750.1
37.5°	1625.1	1629.9	1628.1	1579.7	1517.8	1519.5	1512.6	1488.4	1444.7	1637.2	1885.6
40°	1728.1	1731.5	1731.1	1712.5	1680.0	1681.8	1679.2	1651.5	1586.2	1784.8	2036.1
42.5°	1870.4	1854.0	1811.1	1829.8	1848.8	1857.0	1874.7	1848.4	1758.8	1942.2	2177.6
45°	2029.6	1998.5	1901.6	1910.2	1980.8	1996.3	2094.1	2057.8	1946.1	2123.1	2344.2
47.5°	2130.0	2099.3	2017.5	2015.8	2109.3	2124.4	2297.5	2284.1	2116.6	2318.2	2547.5
50°	2219.6	2215.3	2123.1	2145.2	2236.5	2259.0	2519.0	2506.4	2286.6	2548.4	2769.1
52.5°	2352.4	2317.4	2243.8	2289.2	2410.0	2439.4	2738.8	2702.0	2442.8	2751.8	2984.1
55°	2412.1	2403.9	2399.6	2438.9	2604.7	2625.9	2952.5	2868.2	2576.1	2924.0	3147.7
57.5°	2571.8	2556.6	2599.5	2626.3	2834.0	2866.4	3175.8	3041.7	2692.9	3060.7	3227.3
60°	2778.6	2770.4	2809.7	2858.2	3090.1	3139.4	3430.2	3189.6	2786.8	3129.5	3183.6
62.5°	3087.5	3086.7	3079.3	3183.1	3453.1	3498.6	3722.2	3333.7	2801.5	3078.0	2957.7
65°	3530.6	3515.0	3451.0	3564.3	3904.8	3958.0	4026.4	3414.2	2712.8	2813.6	2490.4
67.5°	3994.0	3993.1	3941.2	4088.3	4553.4	4608.3	4406.7	3396.4	2466.6	2279.3	1768.7
70°	4378.2	4359.6	4425.8	4817.8	5382.0	5445.6	4739.4	3187.5	1964.7	1505.3	1051.0
72.5°	4470.3	4471.2	4608.8	5380.2	6177.6	6187.6	4859.3	2583.5	1314.9	830.3	525.7
74°	4186.5	4193.8	4407.2	5408.3	6326.0	6281.0	4553.0	2030.5	889.1	542.1	379.0
75°	3821.3	3775.0	4083.5	5221.0	6172.0	6123.5	4194.3	1629.4	678.4	433.1	331.9
77.5°	2043.1	2090.2	2566.2	3896.2	5014.2	4958.4	2843.9	781.4	366.5	301.6	238.8
80°	727.3	802.2	1127.5	2038.7	3214.7	3232.0	1357.3	358.2	257.9	222.4	168.7
82.5°	296.8	305.0	484.2	904.7	1632.5	1648.0	554.2	212.9	184.3	153.2	100.8
85°	116.0	119.4	214.2	406.7	696.6	742.0	191.7	112.5	113.4	87.8	51.5
87.5°	38.9	44.1	87.8	135.4	236.7	231.9	55.8	33.3	40.7	38.1	16.0
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°	1192.4	1192.4	1192.4	1192.4	1192.4	1192.4	1192.4	1192.4	1192.4	1192.4	1192.4
2.5°	1196.3	1204.5	1210.2	1216.2	1221.9	1223.6	1222.3	1226.2	1226.6	1227.0	1227.5
5°	1203.2	1214.5	1225.3	1231.4	1234.0	1231.8	1224.4	1220.6	1217.1	1214.5	1215.4
7.5°	1212.8	1228.8	1238.7	1241.3	1234.4	1224.4	1206.3	1192.0	1182.9	1176.9	1176.4
10°	1227.5	1243.1	1251.3	1243.9	1224.9	1200.7	1172.1	1145.3	1124.9	1118.9	1118.4
12.5°	1246.1	1263.8	1263.4	1241.8	1208.4	1165.2	1118.9	1087.7	1060.0	1046.2	1051.8
15°	1270.3	1283.7	1271.2	1232.2	1179.5	1120.2	1063.1	1020.7	989.5	974.8	975.7
17.5°	1298.4	1310.1	1276.8	1215.4	1138.8	1062.6	996.4	956.2	931.5	920.7	919.9
20°	1333.5	1336.9	1276.8	1185.9	1086.4	995.6	932.4	904.3	890.4	884.8	886.5
22.5°	1371.1	1364.2	1269.9	1144.4	1017.6	925.5	883.1	870.5	863.6	862.7	863.6
25°	1413.5	1394.1	1255.6	1088.2	945.8	864.9	840.2	842.4	843.7	843.7	846.7
27.5°	1465.4	1426.5	1231.8	1017.2	861.9	808.7	801.7	816.9	823.8	825.1	827.3
30°	1533.8	1462.0	1192.4	928.5	790.5	758.0	770.1	790.5	798.3	803.0	802.2
32.5°	1615.1	1500.9	1139.2	839.8	732.9	722.6	737.3	758.0	766.7	769.3	765.8
35°	1710.8	1545.1	1069.1	756.7	682.7	688.8	706.1	712.6	720.4	720.4	722.1
37.5°	1813.7	1580.5	983.5	680.6	643.8	665.9	678.4	672.4	668.9	664.6	666.7
40°	1918.4	1606.9	872.3	605.3	604.9	642.1	645.5	628.2	614.4	610.1	607.9
42.5°	2009.7	1623.4	771.9	546.9	568.1	618.7	621.3	593.6	571.6	558.6	554.2
45°	2117.5	1642.4	673.7	498.4	533.9	600.1	606.6	569.4	536.9	509.7	502.8
47.5°	2265.0	1685.7	596.2	460.8	509.3	588.4	597.5	549.5	506.7	471.2	465.6
50°	2431.6	1744.9	536.1	435.3	490.2	578.0	589.3	529.2	478.5	439.2	434.8
52.5°	2584.3	1777.0	484.2	412.3	471.6	559.0	578.5	514.4	450.8	407.1	403.2
55°	2667.8	1725.0	433.1	389.8	446.1	534.3	563.3	494.1	424.0	390.3	384.6
57.5°	2679.1	1617.7	386.8	365.6	419.3	504.1	535.2	469.4	406.7	378.6	373.8
60°	2592.1	1457.7	350.9	345.7	392.0	469.9	503.6	447.8	389.0	365.6	360.8
62.5°	2375.8	1283.7	325.8	327.5	364.3	434.0	480.3	427.0	372.1	351.3	347.0
65°	2003.7	1059.6	301.6	308.9	339.6	405.8	459.1	409.7	355.2	340.5	336.6
67.5°	1391.9	765.0	281.7	289.5	316.3	377.3	434.4	391.1	336.2	328.4	322.3
70°	770.6	470.7	258.3	267.4	292.1	345.3	406.7	363.0	308.5	305.0	296.4
72.5°	405.0	299.8	231.9	241.9	259.2	304.2	364.3	332.3	281.2	266.5	255.3
74°	316.3	245.8	214.2	224.6	236.2	279.9	339.2	310.2	261.8	244.5	235.8
75°	275.6	218.9	199.0	212.4	222.8	263.5	319.7	294.6	250.9	234.5	226.7
77.5°	194.7	164.0	162.7	178.7	184.3	231.0	288.2	268.3	223.7	206.4	199.0
80°	136.7	122.9	128.9	138.9	146.7	204.2	267.4	231.9	183.5	163.1	160.5
82.5°	89.1	80.5	92.2	101.2	103.8	150.6	215.9	176.1	133.7	108.6	100.8
85°	41.1	40.2	52.8	51.5	51.1	73.6	128.1	103.0	77.0	57.5	54.1
87.5°	10.4	10.0	13.0	10.8	13.0	11.2	11.7	3.0	0.4	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)