

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: P450910

Luminaire Tested: **GALN-SA1D-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6699 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

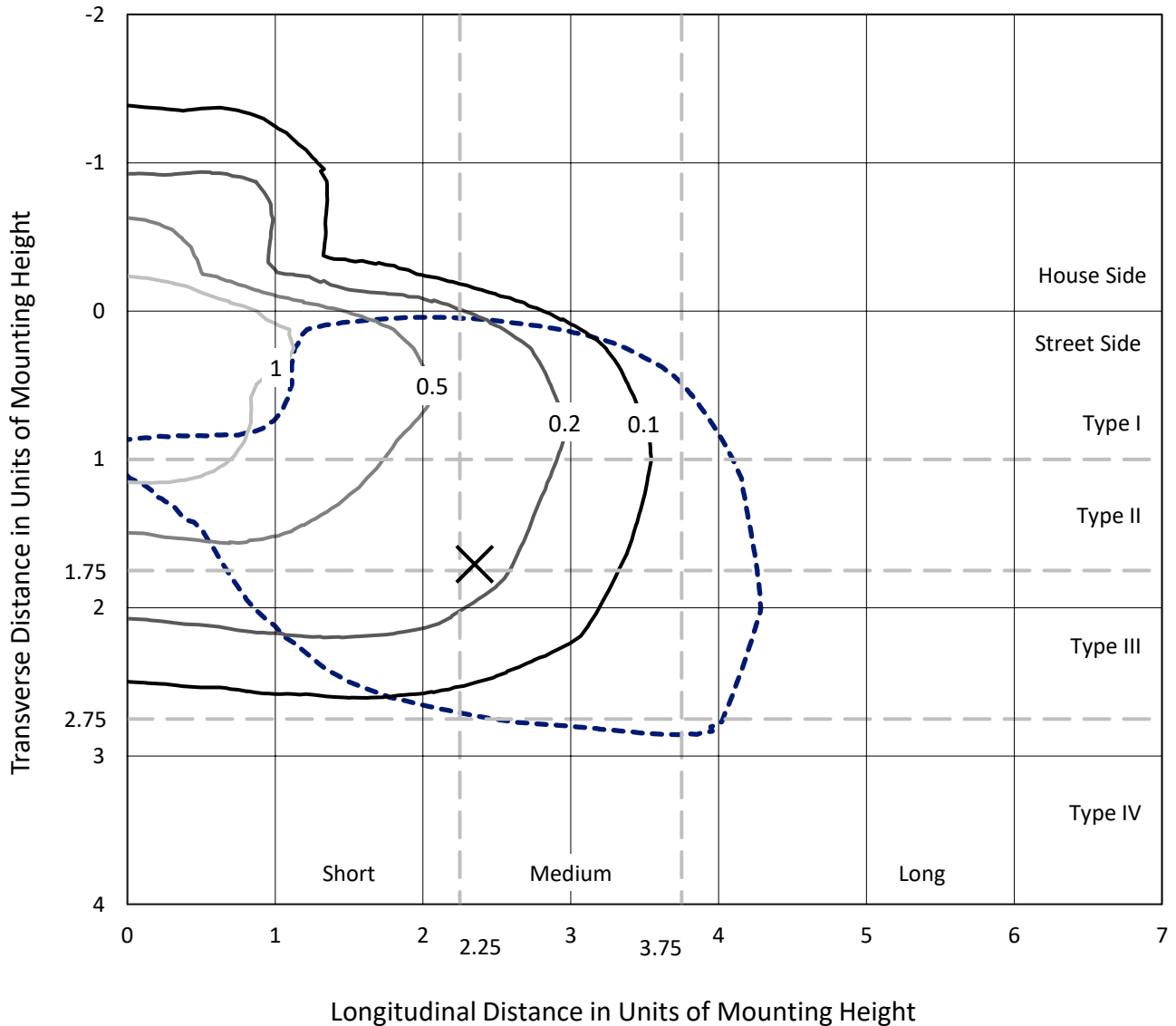
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

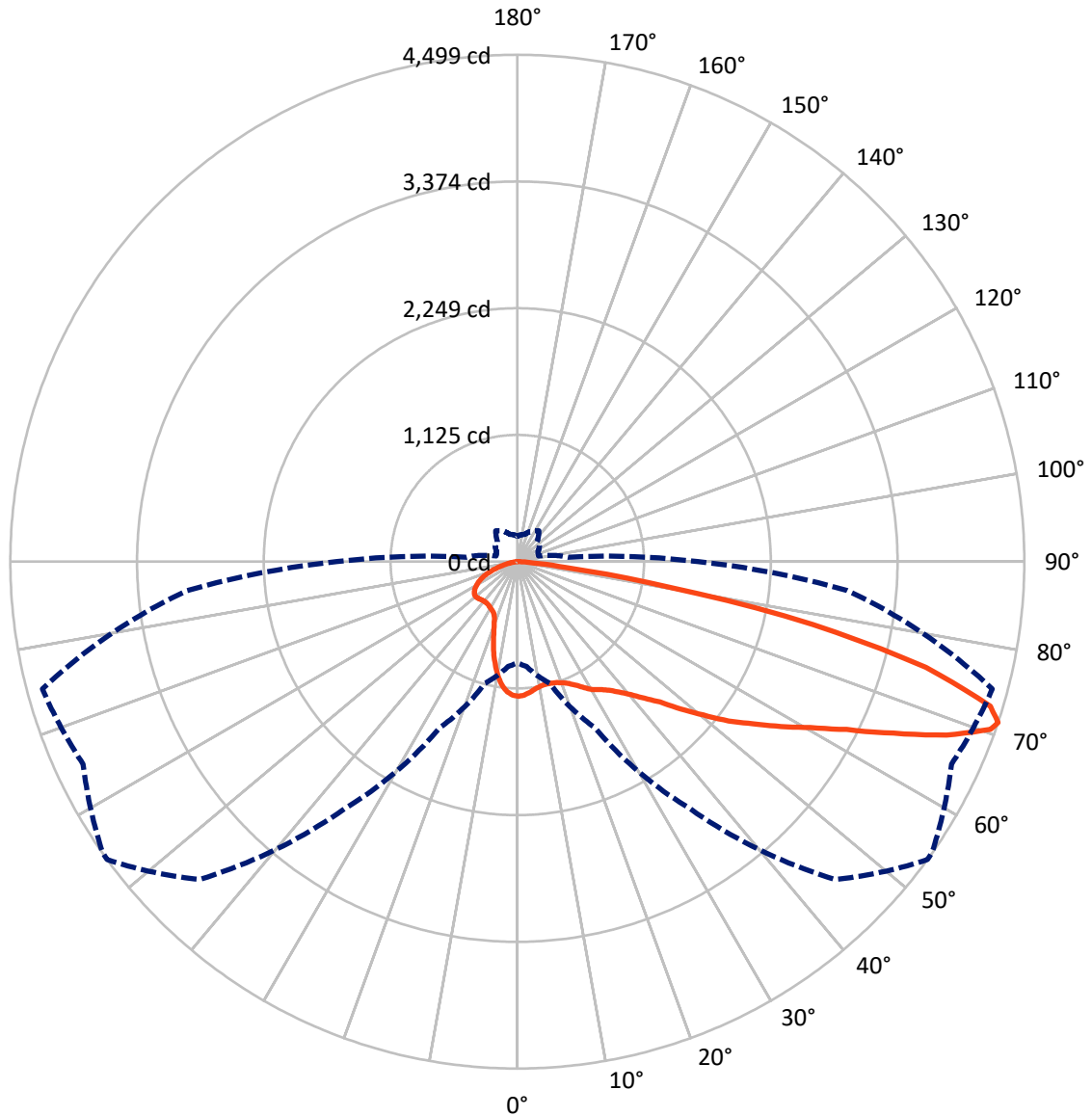
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1209.5	0.0	1209.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5489.5	0.0	5489.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	6699.0	0.0	6699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	1.6
10°-20°	281.2	4.2
20°-30°	468.3	7.0
30°-40°	692.4	10.3
40°-50°	975.3	14.6
50°-60°	1306.0	19.5
60°-70°	1646.1	24.6
70°-80°	1124.3	16.8
80°-90°	98.9	1.5
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°	6699.0	100.0
0°-180°	6699.0	100.0

Coefficient of Utilization



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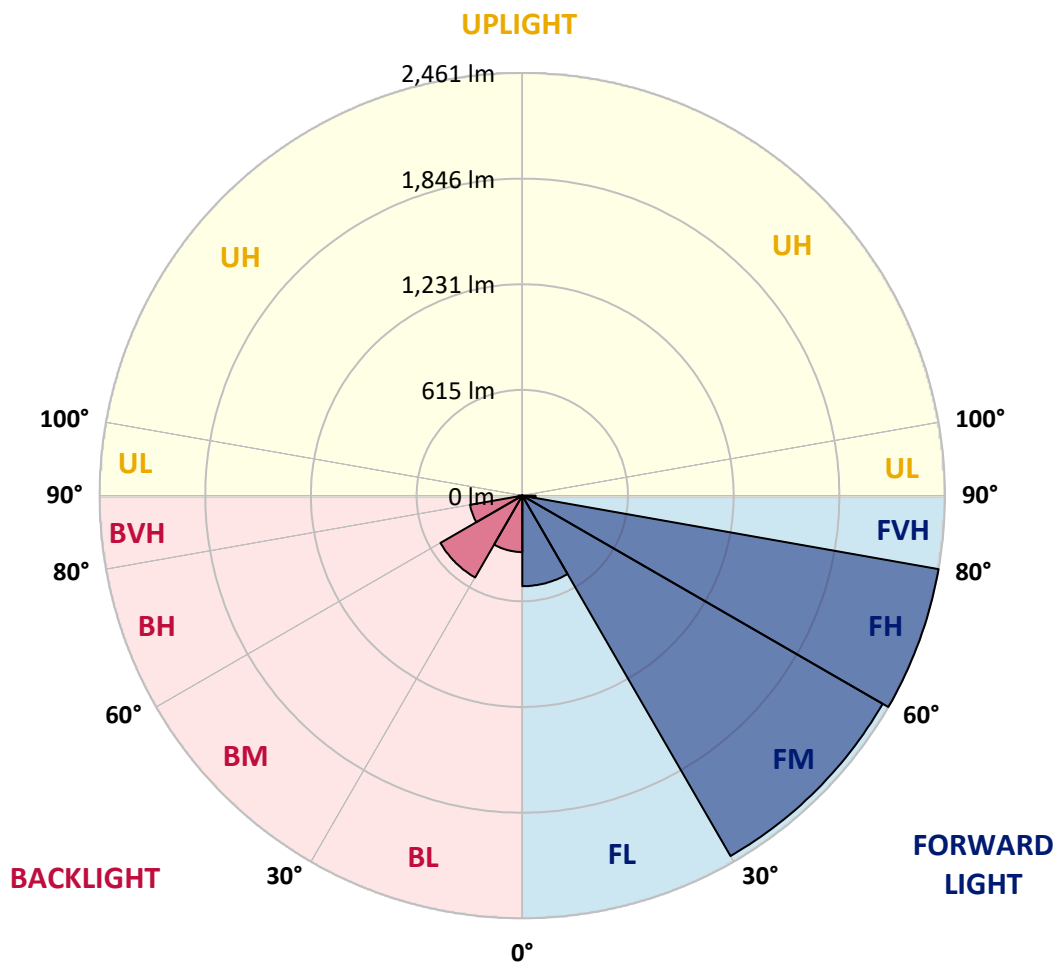
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.3	7.9			
FM (30°-60°)	2423.5	36.2			
FH (60°-80°)	2461.5	36.7			G2/5000
FVH (80°-90°)	77.3	1.2			G1/100
BL (0°-30°)	328.7	4.9	B1/500		
BM (30°-60°)	550.3	8.2	B1/1000		
BH (60°-80°)	308.9	4.6	B1/500		G1/500
BVH (80°-90°)	21.6	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2
2.5°	1154.7	1160.1	1161.5	1165.2	1172.8	1178.9	1185.1	1184.3	1193.0	1196.6	1199.9
5°	1103.3	1104.7	1110.2	1117.4	1130.8	1147.8	1164.4	1164.8	1186.2	1203.2	1211.5
7.5°	1065.7	1070.4	1074.0	1081.6	1095.7	1114.1	1140.6	1142.7	1180.7	1214.4	1232.1
10°	1041.1	1046.5	1050.5	1059.9	1074.0	1094.6	1123.2	1127.2	1176.7	1232.1	1263.2
12.5°	1018.6	1024.0	1027.7	1040.0	1058.4	1083.8	1116.0	1120.7	1178.2	1252.7	1297.2
15°	1032.4	1036.7	1035.3	1038.9	1051.2	1080.1	1118.8	1123.6	1183.6	1272.6	1330.9
17.5°	1093.5	1097.1	1085.2	1071.4	1065.7	1087.0	1127.9	1133.0	1194.5	1293.3	1365.3
20°	1183.6	1193.4	1167.3	1136.6	1108.7	1111.6	1146.7	1152.1	1209.7	1313.9	1400.4
22.5°	1300.9	1308.1	1276.3	1225.6	1174.2	1147.8	1174.9	1178.2	1232.5	1340.7	1438.7
25°	1438.7	1443.1	1398.9	1333.8	1259.6	1209.7	1213.7	1219.4	1270.1	1371.1	1472.7
27.5°	1572.6	1586.4	1535.3	1455.7	1358.0	1274.8	1266.8	1270.5	1311.0	1388.1	1496.3
30°	1731.5	1730.4	1676.5	1584.2	1459.0	1345.7	1317.1	1316.4	1333.1	1396.4	1513.3
32.5°	1858.1	1873.0	1820.1	1719.5	1574.4	1419.2	1351.9	1350.4	1350.1	1410.9	1538.6
35°	2002.1	2004.3	1955.8	1854.5	1699.3	1511.5	1400.4	1393.1	1384.8	1442.0	1573.0
37.5°	2131.0	2141.1	2096.6	1983.0	1821.9	1607.4	1467.0	1462.2	1436.9	1495.9	1628.0
40°	2231.5	2239.1	2212.4	2104.2	1942.8	1710.8	1551.6	1542.9	1512.2	1584.2	1701.4
42.5°	2264.5	2280.0	2290.5	2237.3	2081.7	1833.5	1655.8	1645.0	1621.5	1718.1	1786.1
45°	2267.0	2291.6	2347.0	2349.5	2221.4	1980.4	1777.4	1769.8	1768.0	1889.6	1905.2
47.5°	2247.8	2272.8	2365.8	2416.1	2345.9	2128.8	1952.9	1941.0	1942.1	2101.6	2038.7
50°	2201.5	2231.2	2344.1	2458.8	2443.2	2282.9	2138.2	2134.2	2156.6	2343.7	2177.3
52.5°	2114.3	2150.1	2321.6	2485.6	2515.6	2415.7	2348.8	2337.6	2394.4	2606.4	2328.9
55°	1873.0	1926.9	2239.5	2500.4	2584.4	2542.7	2538.4	2558.7	2633.9	2893.0	2495.7
57.5°	1747.0	1787.6	2061.1	2502.9	2671.2	2690.4	2759.9	2764.9	2896.6	3197.3	2684.2
60°	1678.3	1714.1	1963.4	2486.3	2792.4	2873.1	2986.4	3004.5	3153.2	3527.0	2879.6
62.5°	1618.2	1649.0	1904.8	2428.8	2929.2	3144.1	3279.8	3288.5	3444.5	3891.0	3072.5
65°	1476.7	1511.8	1786.8	2371.2	3047.2	3482.8	3669.2	3659.1	3754.6	4205.1	3193.4
67.5°	1286.0	1330.5	1566.5	2172.6	3105.4	3853.0	4107.8	4095.1	4060.7	4411.0	3228.1
70°	1042.5	1066.4	1284.6	1829.2	2872.8	4047.3	4454.0	4440.7	4250.3	4438.1	3063.8
71°	897.0	934.3	1118.5	1624.7	2679.2	3988.0	4498.6	4494.9	4250.7	4363.2	2940.1
72.5°	700.2	723.0	885.8	1258.9	2277.1	3650.7	4388.6	4402.3	4158.4	4155.2	2685.0
75°	442.9	453.0	555.8	741.1	1249.5	2585.4	3746.3	3783.5	3692.3	3401.1	1996.7
77.5°	257.3	270.3	332.9	436.8	539.9	1403.3	2680.6	2721.1	2565.5	1872.6	817.4
80°	149.8	164.3	219.3	253.7	247.9	520.7	1364.9	1434.0	1110.9	472.9	229.4
82.5°	83.2	93.0	154.1	154.5	132.1	170.1	429.5	449.4	317.0	190.7	93.7
85°	60.4	68.4	99.5	90.1	63.3	73.1	149.4	156.7	128.1	80.3	30.4
87.5°	21.3	30.4	54.6	43.4	17.4	15.2	43.1	35.1	32.6	22.4	6.9
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°	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2
2.5°	1201.7	1202.4	1198.8	1192.3	1185.8	1177.5	1168.1	1160.8	1157.6	1157.2	1156.8
5°	1214.7	1216.6	1202.8	1182.5	1160.1	1132.6	1109.1	1082.3	1075.4	1064.6	1067.8
7.5°	1235.7	1234.6	1207.5	1164.4	1112.0	1053.7	1004.5	975.9	946.2	937.9	938.3
10°	1265.8	1258.9	1207.5	1127.5	1040.0	953.5	884.7	841.3	817.8	798.2	791.0
12.5°	1297.6	1280.2	1195.9	1075.8	947.3	841.3	767.5	708.9	693.7	677.8	678.1
15°	1328.0	1299.1	1173.1	1003.1	847.5	721.5	649.9	614.8	610.1	611.9	611.5
17.5°	1355.5	1312.4	1138.4	922.0	730.9	618.8	580.8	583.3	596.0	605.0	606.1
20°	1383.4	1320.4	1086.6	813.4	620.9	556.5	558.0	577.9	597.1	609.4	611.2
22.5°	1409.8	1324.0	1025.9	708.5	541.3	530.1	551.5	572.8	591.6	603.6	605.4
25°	1427.1	1315.7	939.7	598.9	502.3	520.7	543.1	561.2	577.2	589.5	592.4
27.5°	1431.9	1288.9	833.0	510.2	484.2	511.7	532.3	545.7	558.0	569.6	571.7
30°	1429.3	1249.5	715.7	458.1	473.7	501.2	517.1	526.9	541.7	550.7	552.5
32.5°	1425.3	1203.5	593.4	430.2	465.0	491.4	500.8	509.5	509.1	505.5	508.0
35°	1426.8	1148.5	494.3	413.6	457.4	484.2	492.1	481.3	450.1	448.7	447.3
37.5°	1434.4	1094.2	422.3	402.0	453.4	483.1	487.4	437.5	410.0	397.3	394.1
40°	1453.9	1030.9	374.9	393.3	453.0	491.4	466.1	415.4	362.6	338.0	336.2
42.5°	1480.0	968.7	345.9	387.9	457.4	504.1	457.4	384.3	326.8	312.3	310.1
45°	1518.7	897.4	330.0	385.4	463.9	508.8	454.5	361.5	312.3	300.7	300.7
47.5°	1562.5	829.4	321.3	383.6	472.2	505.5	428.8	354.3	305.4	306.9	313.7
50°	1605.9	770.4	314.8	379.6	479.5	503.7	418.3	353.9	307.2	325.7	338.0
52.5°	1656.2	728.8	306.9	373.1	479.5	492.1	415.0	361.1	312.3	317.7	323.1
55°	1717.0	715.7	296.7	359.0	470.8	463.2	413.2	371.6	315.9	303.2	305.4
57.5°	1797.3	736.7	286.9	341.2	450.9	433.1	412.5	374.5	307.6	297.1	294.9
60°	1890.7	778.3	284.1	323.1	423.7	407.4	408.2	366.2	296.0	285.1	286.9
62.5°	1956.2	803.3	282.2	309.4	394.1	379.2	397.7	356.1	290.9	281.5	283.3
65°	1956.2	772.9	265.6	288.4	355.7	345.2	385.0	343.4	284.4	273.6	271.8
67.5°	1882.0	684.3	240.3	256.9	313.4	306.5	367.3	328.2	274.6	266.3	262.0
70°	1688.8	518.9	208.4	220.0	259.8	266.0	344.5	307.6	258.4	248.2	241.7
71°	1603.7	452.0	195.0	201.2	239.2	248.2	333.6	298.9	251.1	236.7	225.1
72.5°	1439.8	380.7	174.8	177.3	204.4	220.7	310.8	282.2	237.4	216.8	203.7
75°	1093.9	277.9	140.8	139.3	151.3	175.1	263.1	251.5	208.1	180.2	172.6
77.5°	472.6	151.3	105.3	106.4	102.8	132.8	207.0	216.0	178.4	146.6	139.7
80°	143.3	87.2	72.0	73.5	68.8	89.0	145.8	169.3	143.3	114.0	104.6
82.5°	73.5	52.1	49.2	48.5	43.8	50.3	88.3	115.8	102.4	71.3	63.0
85°	31.8	27.9	24.2	23.5	20.6	18.1	31.5	57.9	54.3	39.8	38.0
87.5°	8.0	7.2	4.7	4.3	2.5	0.4	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)