

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: P450690

Luminaire Tested: **GALN-SA1C-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6467 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

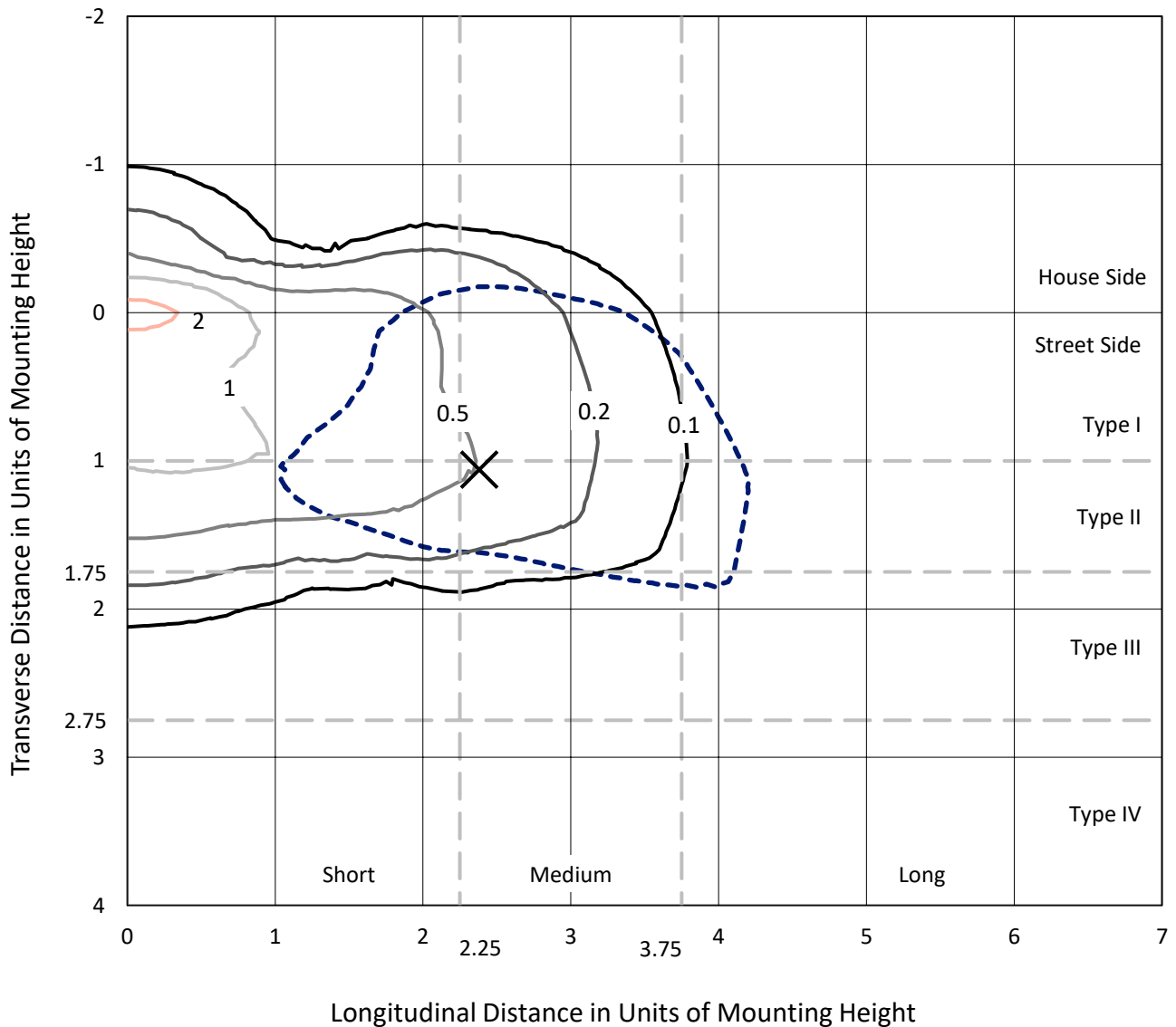
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

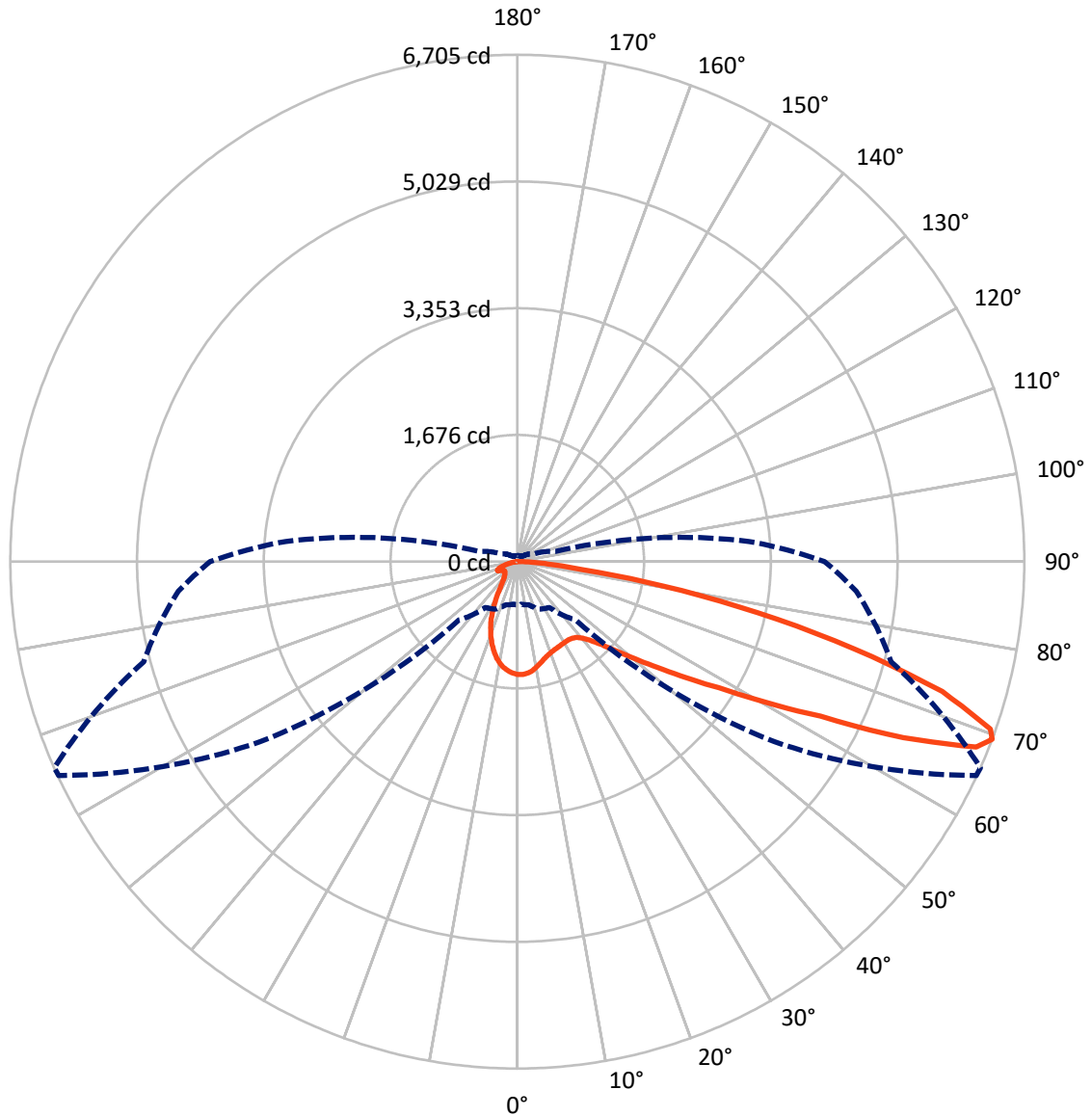
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1216.2	0.0	1216.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5250.8	0.0	5250.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	6467.0	0.0	6467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	2.0
10°-20°	307.6	4.8
20°-30°	418.8	6.5
30°-40°	562.7	8.7
40°-50°	840.2	13.0
50°-60°	1336.6	20.7
60°-70°	1643.9	25.4
70°-80°	1069.6	16.5
80°-90°	157.9	2.4
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°	6467.0	100.0
0°-180°	6467.0	100.0

Coefficient of Utilization



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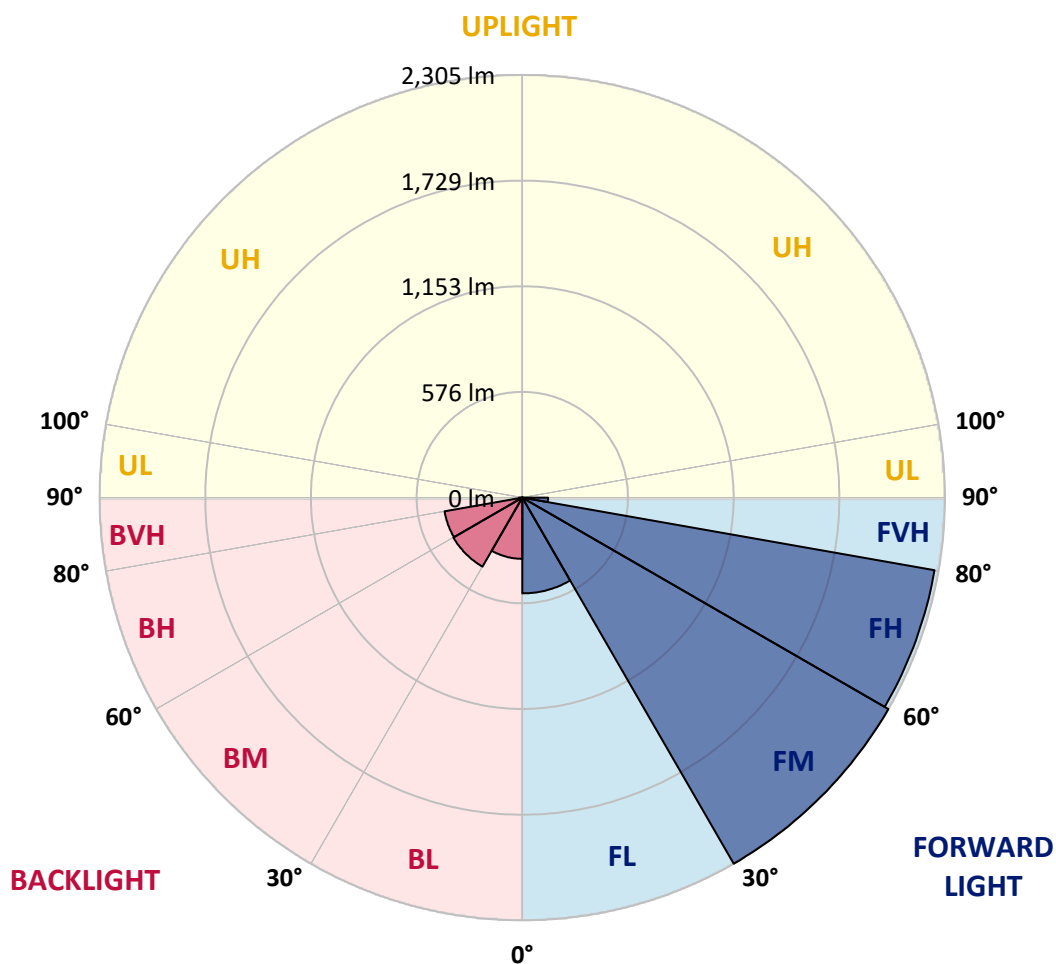
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	522.2	8.1			
FM	(30°-60°)	2305.3	35.6			
FH	(60°-80°)	2282.9	35.3			G2/5000
FVH	(80°-90°)	140.4	2.2			G2/225
BL	(0°-30°)	333.9	5.2	B1/500		
BM	(30°-60°)	434.2	6.7	B1/1000		
BH	(60°-80°)	430.6	6.7	B1/500		G1/500
BVH	(80°-90°)	17.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4
2.5°	1441.1	1446.9	1453.3	1460.5	1474.1	1481.6	1487.0	1493.1	1493.8	1497.0	1494.5
5°	1334.8	1341.6	1351.2	1364.8	1385.3	1417.1	1450.1	1476.9	1480.2	1495.2	1499.5
7.5°	1245.9	1249.9	1257.8	1279.6	1308.6	1344.1	1392.1	1446.5	1454.4	1490.2	1502.7
10°	1173.6	1177.5	1186.8	1209.4	1238.1	1282.5	1335.1	1406.7	1413.2	1474.8	1503.4
12.5°	1119.5	1123.1	1133.1	1155.3	1188.3	1229.8	1287.8	1363.8	1373.1	1454.4	1496.6
15°	1078.3	1085.1	1093.4	1111.6	1146.4	1186.5	1242.7	1324.4	1331.9	1432.9	1492.0
17.5°	1060.8	1064.0	1069.7	1086.6	1112.0	1151.4	1208.0	1293.6	1302.5	1417.8	1490.9
20°	1061.5	1064.7	1065.8	1075.1	1093.4	1127.4	1183.3	1269.2	1280.0	1404.6	1492.7
22.5°	1085.9	1086.2	1082.3	1079.1	1086.2	1114.5	1165.7	1251.0	1263.5	1398.9	1494.1
25°	1123.5	1129.9	1124.2	1109.1	1095.9	1109.5	1158.9	1240.9	1252.7	1390.6	1492.3
27.5°	1184.3	1185.4	1180.8	1160.3	1126.0	1115.9	1156.0	1233.4	1243.4	1384.5	1483.4
30°	1266.0	1262.8	1258.5	1235.9	1181.8	1140.7	1162.1	1226.6	1237.0	1375.6	1472.6
32.5°	1348.7	1358.8	1354.8	1328.3	1258.1	1188.6	1181.8	1225.9	1234.5	1368.8	1460.8
35°	1436.5	1441.1	1459.7	1446.1	1374.2	1266.4	1218.7	1237.0	1243.8	1369.1	1452.6
37.5°	1505.2	1517.8	1561.5	1573.3	1505.6	1369.1	1278.5	1268.5	1271.4	1386.7	1455.8
40°	1588.3	1609.8	1666.0	1714.4	1670.0	1502.7	1380.2	1326.9	1330.5	1428.9	1476.9
42.5°	1693.6	1708.6	1784.2	1849.8	1842.6	1679.3	1503.4	1422.5	1424.3	1513.1	1536.0
45°	1816.8	1838.3	1923.2	2021.7	2038.5	1879.1	1681.4	1567.2	1566.1	1643.8	1646.3
47.5°	1974.4	1987.6	2071.8	2179.2	2247.3	2130.2	1897.4	1774.9	1763.4	1834.4	1813.9
50°	2119.4	2140.2	2203.9	2321.4	2490.8	2424.2	2181.4	2044.2	2017.4	2083.6	2049.2
52.5°	2180.3	2202.2	2255.9	2401.6	2699.6	2804.5	2542.0	2365.5	2320.7	2371.5	2359.0
55°	2074.7	2103.0	2153.1	2330.4	2791.3	3243.2	3028.4	2736.8	2704.3	2682.4	2686.0
57.5°	1790.7	1817.5	1885.2	2080.7	2681.7	3561.6	3722.8	3214.2	3144.4	3043.8	3061.0
60°	1363.0	1379.9	1415.0	1631.6	2356.9	3644.4	4511.4	3817.7	3773.3	3403.7	3415.9
62.5°	968.0	987.0	1011.4	1119.5	1725.5	3411.2	5128.8	4660.4	4501.7	3776.5	3764.7
65°	786.1	773.2	802.6	853.1	1012.4	2643.7	5267.8	5830.0	5611.6	4267.5	4103.5
67.5°	646.4	632.8	661.8	751.7	770.0	1534.6	4767.1	6589.3	6545.6	4801.5	4447.6
69°	572.3	565.1	590.6	693.0	739.2	1089.8	4152.9	6694.9	6705.3	5116.3	4500.6
70°	515.7	518.6	543.3	663.3	725.2	898.6	3549.4	6549.2	6637.3	5273.5	4443.3
72.5°	379.6	385.7	420.1	549.4	712.0	762.5	2112.3	5720.4	5876.2	5282.8	4064.8
75°	265.4	262.5	293.0	413.6	672.6	755.7	1240.6	4424.0	4600.6	4566.2	3415.5
77.5°	173.7	178.3	202.7	292.2	565.8	749.9	808.7	3138.7	3253.3	3053.8	2020.2
80°	122.5	122.1	135.7	199.5	419.7	720.6	662.2	1978.3	1949.3	1200.1	599.2
82.5°	70.2	75.2	91.0	140.4	280.8	634.3	609.2	946.2	863.8	342.0	202.3
85°	39.0	40.8	54.1	84.9	164.0	477.7	531.8	430.5	406.1	142.9	87.0
87.5°	12.5	13.6	22.6	43.0	74.5	225.6	301.2	198.8	183.4	51.6	35.1
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°	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4
2.5°	1495.6	1499.9	1488.4	1477.3	1467.3	1453.3	1440.8	1430.4	1423.2	1422.1	1418.6
5°	1500.6	1500.9	1479.1	1449.7	1421.1	1389.6	1357.0	1333.7	1311.8	1299.7	1293.6
7.5°	1504.2	1500.9	1461.5	1413.9	1358.8	1301.5	1244.2	1198.3	1162.9	1148.9	1154.3
10°	1502.7	1492.7	1435.0	1358.8	1278.5	1192.9	1110.6	1046.1	987.0	956.6	957.3
12.5°	1494.8	1478.4	1395.6	1296.8	1179.0	1064.4	938.3	851.3	782.9	742.4	729.9
15°	1488.0	1459.4	1349.4	1212.6	1066.2	902.5	748.9	641.4	584.1	552.2	551.9
17.5°	1480.9	1441.1	1298.9	1123.5	936.5	725.9	564.8	482.8	455.9	459.1	453.8
20°	1473.4	1419.6	1246.3	1024.3	778.6	541.5	423.0	389.6	397.2	411.9	414.0
22.5°	1464.8	1396.7	1189.7	915.0	612.4	407.6	343.1	338.1	357.4	380.3	383.6
25°	1451.5	1368.1	1118.4	800.8	472.4	328.4	300.5	304.1	323.0	342.4	344.5
27.5°	1432.9	1332.6	1046.5	658.2	354.9	281.8	274.7	279.3	288.7	300.5	303.3
30°	1407.8	1292.5	963.7	535.0	284.4	258.6	255.7	258.2	263.6	268.6	270.0
32.5°	1382.7	1253.8	880.3	409.7	253.6	243.2	240.3	240.3	240.3	241.0	241.4
35°	1359.5	1217.3	790.8	319.1	237.4	231.0	227.1	222.8	222.0	219.5	219.5
37.5°	1346.6	1184.0	695.5	267.2	225.6	221.0	215.6	208.4	204.5	204.9	204.1
40°	1349.1	1162.1	608.8	237.8	216.0	210.9	202.7	194.5	192.0	192.0	191.2
42.5°	1377.4	1155.0	525.7	222.4	206.6	200.9	190.5	183.0	181.6	181.2	181.9
45°	1442.6	1172.5	451.2	212.4	198.8	190.2	179.8	173.0	171.5	171.5	171.2
47.5°	1569.7	1229.5	397.9	205.9	193.0	181.9	171.2	164.4	161.9	161.2	161.2
50°	1767.4	1353.0	358.1	200.2	185.9	174.4	163.3	155.4	151.5	151.1	150.8
52.5°	2042.1	1545.7	342.7	195.9	178.0	166.5	154.4	146.8	141.8	140.7	140.0
55°	2363.3	1814.7	363.9	192.7	169.8	157.6	145.0	137.2	132.5	130.4	130.0
57.5°	2735.4	2137.7	444.1	188.4	162.2	147.9	135.7	127.9	122.8	120.3	119.6
60°	3069.5	2469.7	584.1	185.9	155.8	137.5	125.0	117.8	113.2	110.7	110.3
62.5°	3436.6	2786.3	751.4	192.7	152.9	127.5	115.0	108.5	104.6	102.1	102.1
65°	3828.8	3103.2	862.0	215.6	157.2	119.6	104.2	98.8	95.3	93.5	93.1
67.5°	4093.1	3212.8	710.2	239.2	168.0	111.0	93.8	89.5	87.4	85.6	85.6
69°	4064.4	3074.2	523.9	245.3	171.2	106.7	88.1	84.9	82.0	81.3	80.6
70°	3973.8	2916.3	439.1	241.4	168.7	102.8	84.5	80.6	78.1	77.4	77.0
72.5°	3539.4	2529.1	327.0	209.9	143.6	89.2	74.8	71.3	69.1	68.0	68.0
75°	2940.6	2067.1	255.3	166.9	112.5	75.2	64.1	61.2	59.4	58.7	58.4
77.5°	1648.1	1154.3	183.4	130.7	85.2	60.9	53.7	51.2	49.4	48.7	48.7
80°	459.1	329.8	107.8	86.3	58.0	46.2	42.6	40.8	38.3	36.5	37.6
82.5°	173.0	142.9	61.6	51.9	36.9	30.8	29.7	28.3	27.2	24.7	24.7
85°	84.2	69.5	39.4	27.6	20.4	16.1	15.4	14.7	14.0	12.2	12.5
87.5°	29.0	30.8	17.2	10.0	6.1	3.9	3.2	1.8	1.8	1.8	1.8
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)