

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: P450922

Luminaire Tested: **GALN-SA1D-730-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450922  
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-SA1D-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA 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: 7116 lumens  
Efficiency: N/A  
Efficacy: 109.5 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

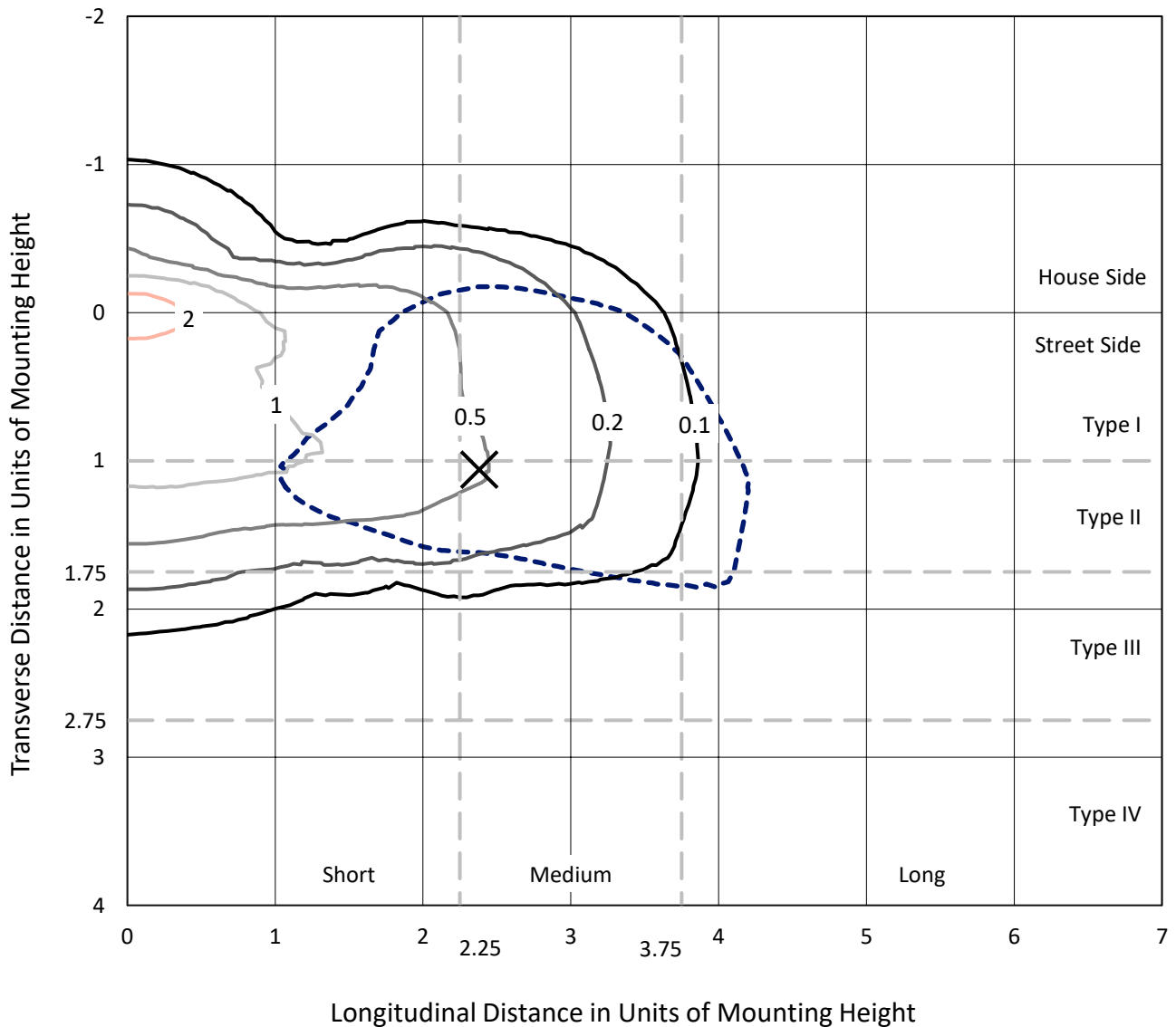
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P450922  
 CATALOG NUMBER: GALN-SA1D-730-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

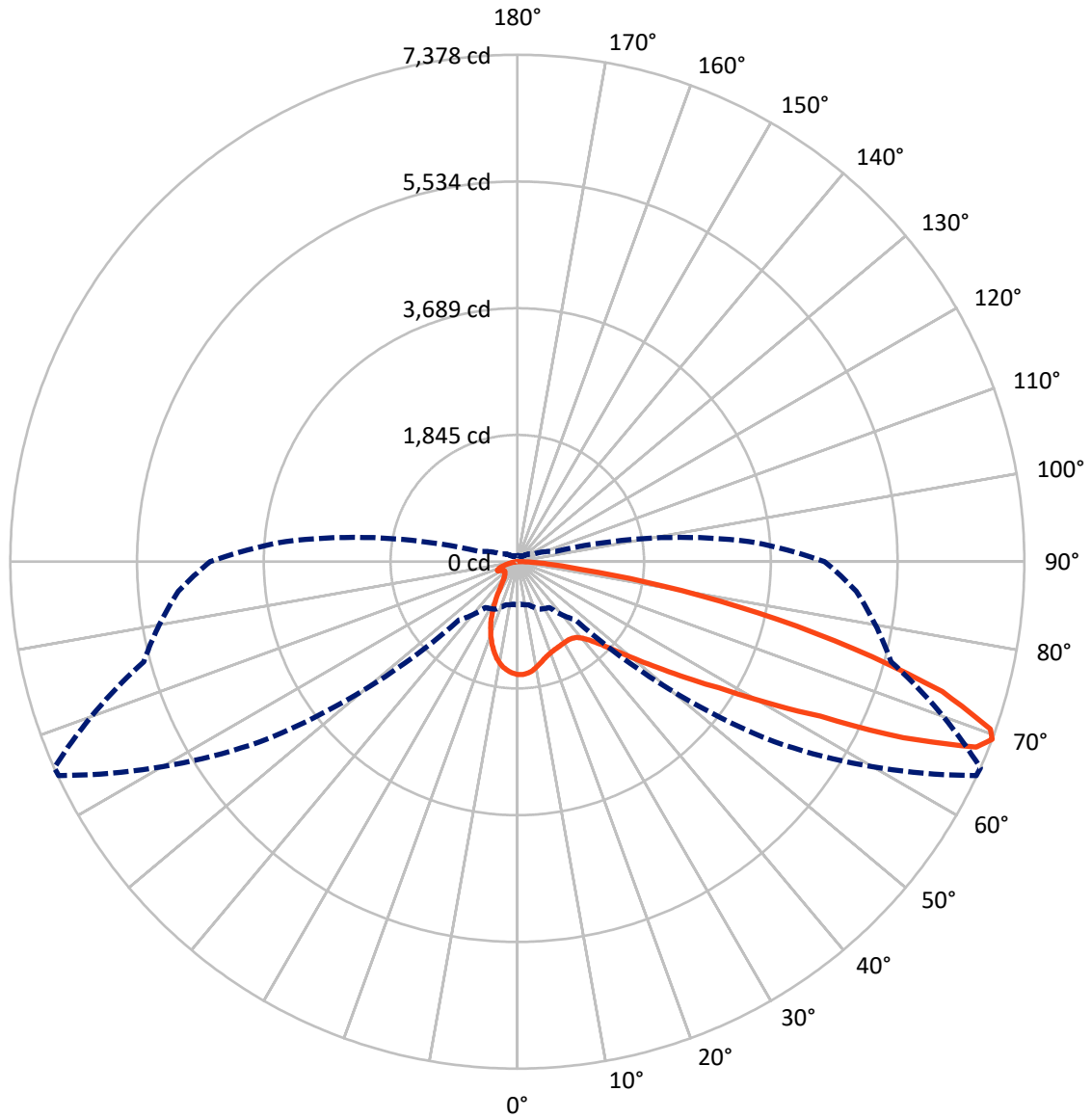
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P450922  
CATALOG NUMBER: GALN-SA1D-730-U-SL2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P450922

CATALOG NUMBER: GALN-SA1D-730-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1338.2	0.0	1338.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	5777.8	0.0	5777.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	7116.0	0.0	7116.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.7	2.0
10°-20°	338.5	4.8
20°-30°	460.8	6.5
30°-40°	619.2	8.7
40°-50°	924.6	13.0
50°-60°	1470.7	20.7
60°-70°	1808.9	25.4
70°-80°	1176.9	16.5
80°-90°	173.8	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°	7116.0	100.0
0°-180°	7116.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P450922

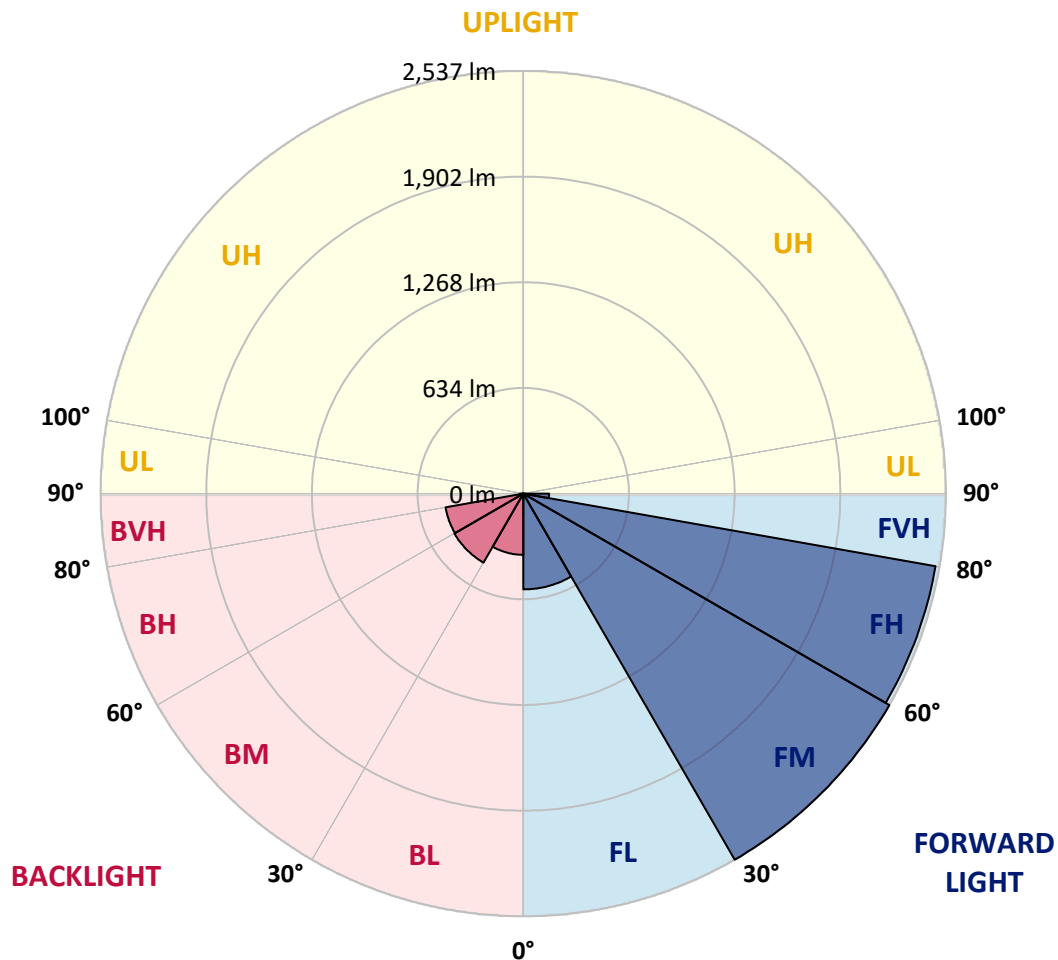
CATALOG NUMBER: GALN-SA1D-730-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	574.6	8.1			
FM (30°-60°)	2536.6	35.6			
FH (60°-80°)	2512.0	35.3			G2/5000
FVH (80°-90°)	154.5	2.2			G2/225
BL (0°-30°)	367.4	5.2	B1/500		
BM (30°-60°)	477.8	6.7	B1/1000		
BH (60°-80°)	473.8	6.7	B1/500		G1/500
BVH (80°-90°)	19.3	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





REPORT NUMBER: P450922

CATALOG NUMBER: GALN-SA1D-730-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1643.3	1643.3	1643.3	1643.3	1643.3	1643.3	1643.3	1643.3	1643.3	1643.3	1643.3
2.5°	1585.7	1592.1	1599.1	1607.0	1622.0	1630.3	1636.2	1642.9	1643.7	1647.2	1644.5
5°	1468.7	1476.2	1486.8	1501.8	1524.3	1559.3	1595.6	1625.2	1628.7	1645.3	1650.0
7.5°	1371.0	1375.3	1384.0	1408.0	1439.9	1479.0	1531.8	1591.7	1600.3	1639.7	1653.5
10°	1291.4	1295.7	1306.0	1330.8	1362.3	1411.2	1469.1	1547.9	1555.0	1622.8	1654.3
12.5°	1231.9	1235.8	1246.8	1271.3	1307.5	1353.2	1417.1	1500.6	1510.9	1600.3	1646.8
15°	1186.6	1194.0	1203.1	1223.2	1261.4	1305.6	1367.4	1457.3	1465.6	1576.7	1641.7
17.5°	1167.2	1170.8	1177.1	1195.6	1223.6	1266.9	1329.2	1423.4	1433.2	1560.1	1640.5
20°	1168.0	1171.6	1172.8	1183.0	1203.1	1240.5	1302.0	1396.6	1408.4	1545.6	1642.5
22.5°	1194.8	1195.2	1190.9	1187.3	1195.2	1226.4	1282.7	1376.5	1390.3	1539.2	1644.1
25°	1236.2	1243.3	1237.0	1220.4	1205.9	1220.8	1275.2	1365.5	1378.5	1530.2	1642.1
27.5°	1303.2	1304.4	1299.3	1276.8	1239.0	1227.9	1272.1	1357.2	1368.2	1523.5	1632.2
30°	1393.0	1389.5	1384.8	1359.9	1300.4	1255.1	1278.8	1349.7	1361.1	1513.6	1620.4
32.5°	1484.1	1495.1	1490.8	1461.6	1384.4	1307.9	1300.4	1348.9	1358.4	1506.1	1607.4
35°	1580.6	1585.7	1606.2	1591.3	1512.1	1393.4	1341.0	1361.1	1368.6	1506.5	1598.4
37.5°	1656.3	1670.1	1718.2	1731.2	1656.7	1506.5	1406.8	1395.8	1399.0	1525.8	1601.9
40°	1747.7	1771.4	1833.2	1886.4	1837.6	1653.5	1518.8	1460.0	1464.0	1572.3	1625.2
42.5°	1863.6	1880.1	1963.3	2035.4	2027.5	1847.8	1654.3	1565.3	1567.2	1665.0	1690.2
45°	1999.1	2022.8	2116.2	2224.5	2243.1	2067.7	1850.2	1724.5	1723.3	1808.8	1811.6
47.5°	2172.5	2187.1	2279.7	2397.9	2472.8	2343.9	2087.8	1953.0	1940.4	2018.4	1996.0
50°	2332.1	2355.0	2425.1	2554.4	2740.8	2667.5	2400.3	2249.4	2219.8	2292.7	2254.9
52.5°	2399.1	2423.2	2482.3	2642.6	2970.5	3086.0	2797.1	2602.8	2553.6	2609.5	2595.8
55°	2282.9	2314.0	2369.2	2564.2	3071.4	3568.7	3332.3	3011.5	2975.6	2951.6	2955.5
57.5°	1970.4	1999.9	2074.4	2289.6	2950.8	3919.1	4096.4	3536.8	3460.0	3349.2	3368.1
60°	1499.8	1518.4	1557.0	1795.4	2593.4	4010.1	4964.1	4200.8	4151.9	3745.3	3758.7
62.5°	1065.2	1086.1	1112.9	1231.9	1898.6	3753.5	5643.5	5128.1	4953.5	4155.5	4142.5
65°	865.0	850.8	883.1	938.7	1114.0	2909.0	5796.4	6415.1	6174.7	4695.8	4515.3
67.5°	711.3	696.3	728.2	827.2	847.3	1688.6	5245.5	7250.5	7202.5	5283.3	4894.0
69°	629.7	621.8	649.8	762.5	813.4	1199.2	4569.7	7366.8	7378.2	5629.7	4952.3
70°	567.5	570.6	597.8	729.8	798.0	988.7	3905.7	7206.4	7303.3	5802.7	4889.3
72.5°	417.7	424.4	462.2	604.5	783.4	839.0	2324.2	6294.5	6465.9	5813.0	4472.7
75°	292.0	288.9	322.4	455.2	740.1	831.5	1365.1	4868.0	5062.3	5024.4	3758.3
77.5°	191.1	196.2	223.0	321.6	622.6	825.2	889.8	3453.7	3579.8	3360.3	2223.0
80°	134.8	134.4	149.4	219.5	461.9	792.9	728.6	2176.9	2144.9	1320.5	659.3
82.5°	77.2	82.8	100.1	154.5	309.0	697.9	670.3	1041.1	950.5	376.3	222.7
85°	43.0	44.9	59.5	93.4	180.5	525.7	585.2	473.7	446.9	157.2	95.8
87.5°	13.8	15.0	24.8	47.3	82.0	248.3	331.4	218.7	201.8	56.7	38.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P450922  
 CATALOG NUMBER: GALN-SA1D-730-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1643.3	1643.3	1643.3	1643.3	1643.3	1643.3	1643.3	1643.3	1643.3	1643.3	1643.3
2.5°	1645.6	1650.4	1637.8	1625.5	1614.5	1599.1	1585.4	1573.9	1566.0	1564.9	1560.9
5°	1651.2	1651.6	1627.5	1595.2	1563.7	1529.0	1493.1	1467.5	1443.5	1430.1	1423.4
7.5°	1655.1	1651.6	1608.2	1555.8	1495.1	1432.1	1369.0	1318.6	1279.6	1264.2	1270.1
10°	1653.5	1642.5	1579.0	1495.1	1406.8	1312.7	1222.0	1151.1	1086.1	1052.6	1053.4
12.5°	1644.9	1626.7	1535.7	1426.9	1297.3	1171.2	1032.5	936.7	861.4	816.9	803.1
15°	1637.4	1605.8	1484.9	1334.3	1173.2	993.1	824.0	705.8	642.7	607.7	607.3
17.5°	1629.5	1585.7	1429.3	1236.2	1030.5	798.8	621.5	531.2	501.7	505.2	499.3
20°	1621.2	1562.1	1371.4	1127.0	856.7	595.8	465.4	428.8	437.0	453.2	455.5
22.5°	1611.8	1536.9	1309.1	1006.9	673.9	448.5	377.5	372.0	393.3	418.5	422.1
25°	1597.2	1505.4	1230.7	881.1	519.8	361.4	330.6	334.6	355.5	376.7	379.1
27.5°	1576.7	1466.3	1151.5	724.3	390.5	310.1	302.3	307.4	317.6	330.6	333.8
30°	1549.1	1422.2	1060.4	588.7	312.9	284.5	281.4	284.1	290.0	295.6	297.1
32.5°	1521.5	1379.6	968.6	450.8	279.0	267.6	264.4	264.4	264.4	265.2	265.6
35°	1495.9	1339.5	870.1	351.1	261.3	254.2	249.8	245.1	244.3	241.6	241.6
37.5°	1481.7	1302.8	765.3	294.0	248.3	243.1	237.2	229.4	225.0	225.4	224.6
40°	1484.5	1278.8	669.9	261.7	237.6	232.1	223.0	214.0	211.2	211.2	210.4
42.5°	1515.6	1270.9	578.5	244.7	227.4	221.1	209.6	201.4	199.8	199.4	200.2
45°	1587.3	1290.2	496.5	233.7	218.7	209.3	197.8	190.3	188.8	188.8	188.4
47.5°	1727.2	1352.9	437.8	226.6	212.4	200.2	188.4	180.9	178.1	177.3	177.3
50°	1944.7	1488.8	394.1	220.3	204.5	191.9	179.7	171.0	166.7	166.3	165.9
52.5°	2247.0	1700.8	377.1	215.6	195.9	183.2	169.8	161.6	156.1	154.9	154.1
55°	2600.5	1996.8	400.4	212.0	186.8	173.4	159.6	150.9	145.8	143.4	143.0
57.5°	3009.9	2352.2	488.6	207.3	178.5	162.8	149.4	140.7	135.2	132.4	131.6
60°	3377.6	2717.5	642.7	204.5	171.4	151.3	137.5	129.6	124.5	121.8	121.4
62.5°	3781.5	3065.9	826.8	212.0	168.3	140.3	126.5	119.4	115.1	112.3	112.3
65°	4213.0	3414.6	948.5	237.2	173.0	131.6	114.7	108.8	104.8	102.9	102.5
67.5°	4503.9	3535.2	781.4	263.2	184.8	122.2	103.2	98.5	96.2	94.2	94.2
69°	4472.3	3382.7	576.5	269.9	188.4	117.4	96.9	93.4	90.2	89.5	88.7
70°	4372.6	3208.9	483.1	265.6	185.6	113.1	93.0	88.7	85.9	85.1	84.7
72.5°	3894.6	2782.9	359.8	230.9	158.0	98.1	82.4	78.4	76.1	74.9	74.9
75°	3235.7	2274.6	281.0	183.6	123.7	82.8	70.5	67.4	65.4	64.6	64.2
77.5°	1813.5	1270.1	201.8	143.8	93.8	67.0	59.1	56.4	54.4	53.6	53.6
80°	505.2	362.9	118.6	95.0	63.8	50.8	46.9	44.9	42.2	40.2	41.4
82.5°	190.3	157.2	67.8	57.1	40.6	33.9	32.7	31.1	29.9	27.2	27.2
85°	92.6	76.5	43.3	30.3	22.5	17.7	16.9	16.2	15.4	13.4	13.8
87.5°	31.9	33.9	18.9	11.0	6.7	4.3	3.5	2.0	2.0	2.0	2.0
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)