

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: P458607

Luminaire Tested: **GALN-SA1D-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458607
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-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 7279 lumens
Efficiency: N/A
Efficacy: 112.0 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

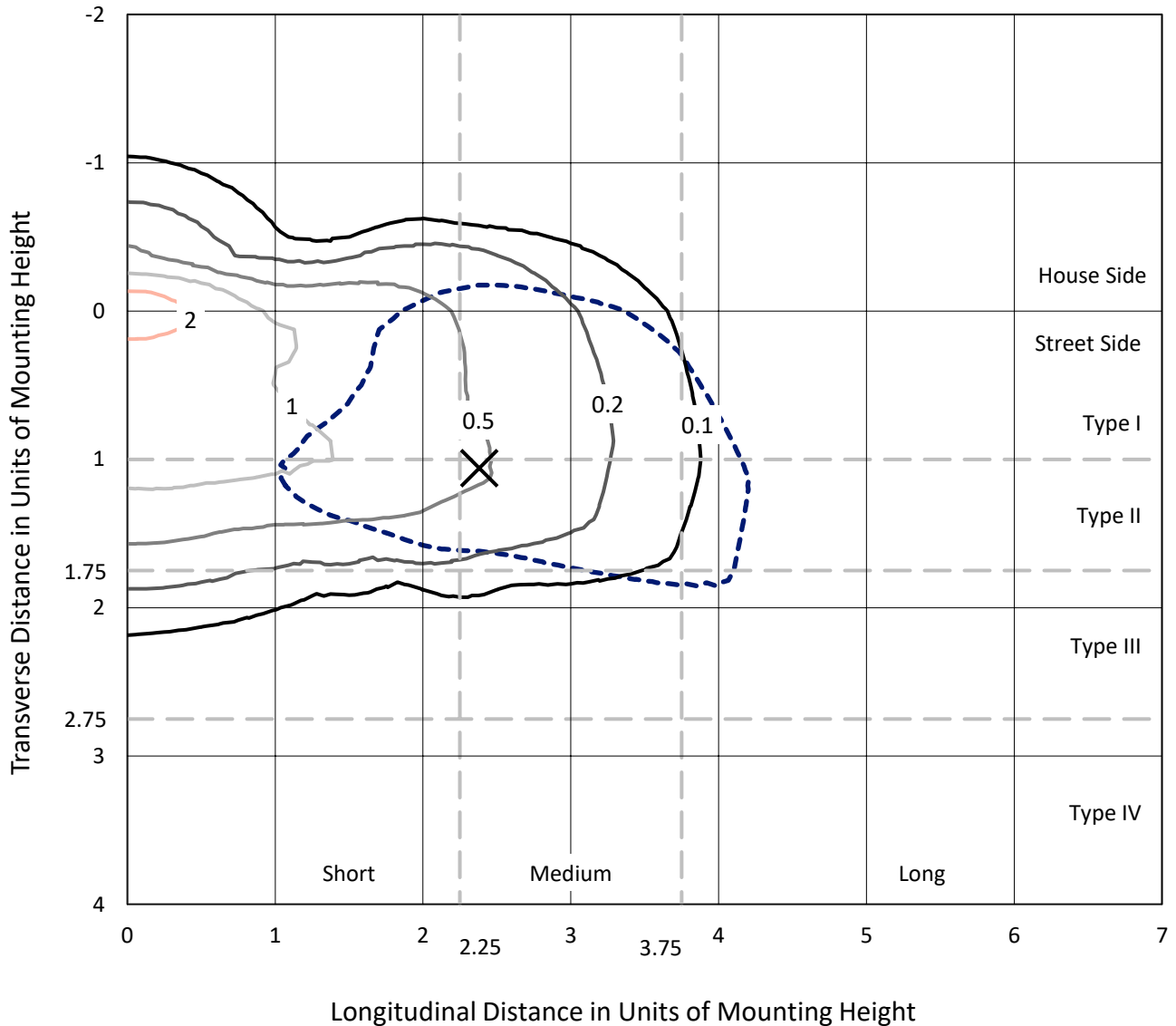
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

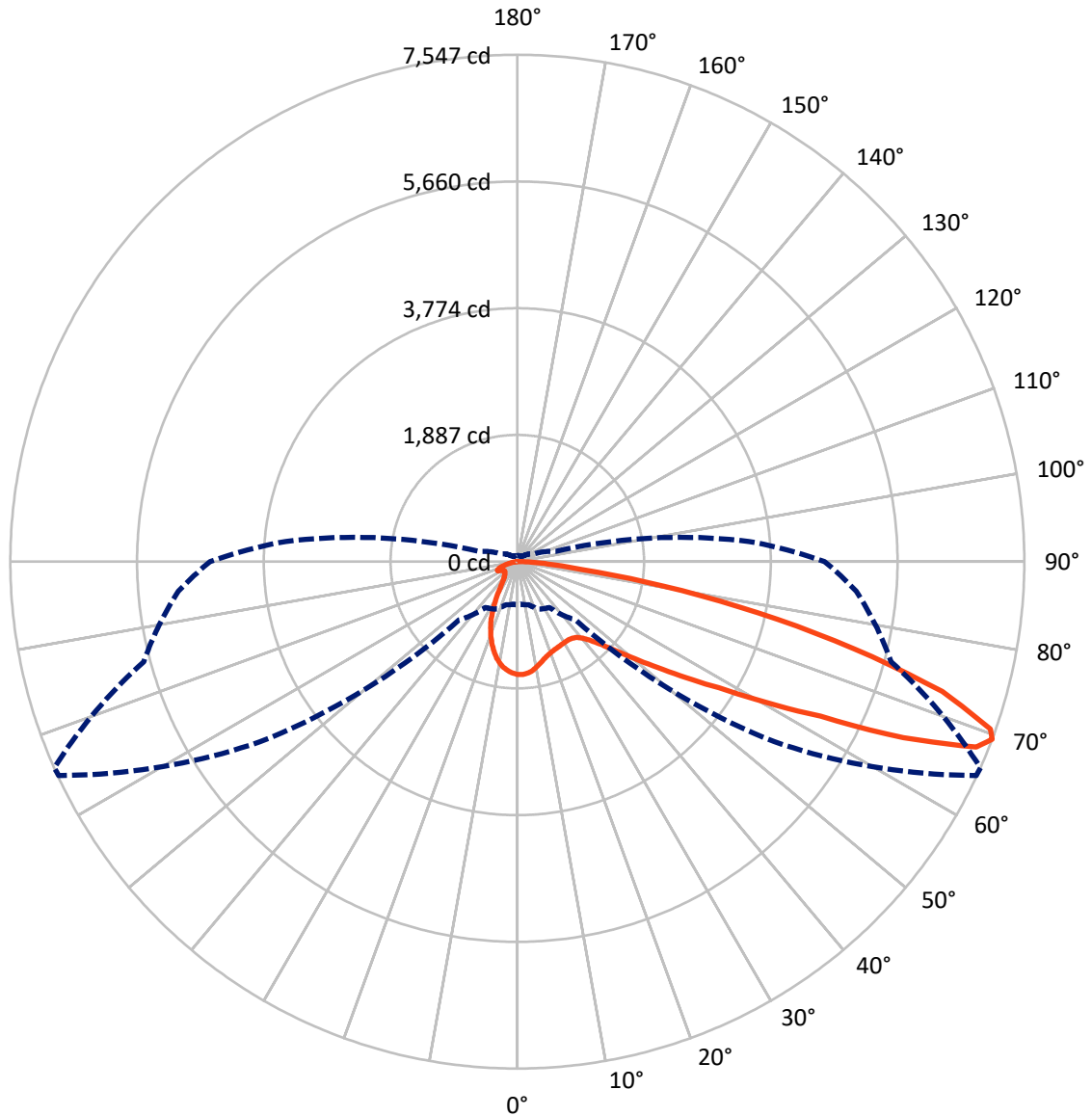
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	1368.9	0.0	1368.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5910.1	0.0	5910.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	7279.0	0.0	7279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	2.0
10°-20°	346.2	4.8
20°-30°	471.3	6.5
30°-40°	633.4	8.7
40°-50°	945.7	13.0
50°-60°	1504.4	20.7
60°-70°	1850.3	25.4
70°-80°	1203.9	16.5
80°-90°	177.8	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°	7279.0	100.0
0°-180°	7279.0	100.0

Coefficient of Utilization



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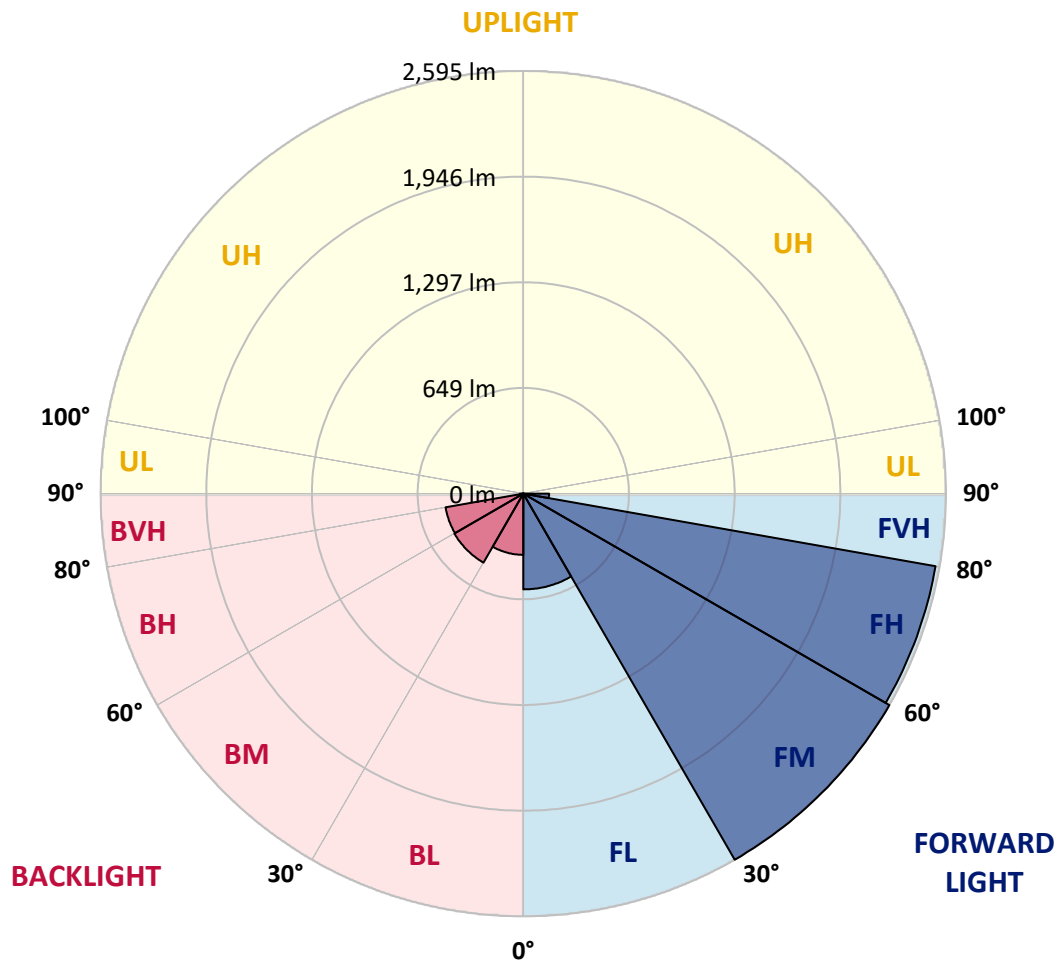
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	587.8	8.1			
FM (30°-60°)	2594.7	35.6			
FH (60°-80°)	2569.5	35.3			G2/5000
FVH (80°-90°)	158.1	2.2			G2/225
BL (0°-30°)	375.8	5.2	B1/500		
BM (30°-60°)	488.8	6.7	B1/1000		
BH (60°-80°)	484.7	6.7	B1/500		G1/500
BVH (80°-90°)	19.7	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°	1680.9	1680.9	1680.9	1680.9	1680.9	1680.9	1680.9	1680.9	1680.9	1680.9	1680.9
2.5°	1622.1	1628.5	1635.8	1643.8	1659.2	1667.6	1673.7	1680.5	1681.3	1685.0	1682.1
5°	1502.4	1510.0	1520.9	1536.2	1559.2	1595.1	1632.1	1662.4	1666.0	1682.9	1687.8
7.5°	1402.4	1406.8	1415.7	1440.3	1472.9	1512.8	1566.8	1628.1	1637.0	1677.3	1691.4
10°	1321.0	1325.4	1335.9	1361.3	1393.5	1443.5	1502.8	1583.4	1590.6	1660.0	1692.2
12.5°	1260.1	1264.1	1275.4	1300.4	1337.5	1384.2	1449.5	1535.0	1545.5	1637.0	1684.6
15°	1213.7	1221.4	1230.7	1251.2	1290.3	1335.5	1398.8	1490.7	1499.1	1612.8	1679.3
17.5°	1194.0	1197.6	1204.1	1223.0	1251.6	1296.0	1359.7	1456.0	1466.1	1595.9	1678.1
20°	1194.8	1198.4	1199.6	1210.1	1230.7	1269.0	1331.8	1428.6	1440.7	1581.0	1680.1
22.5°	1222.2	1222.6	1218.2	1214.5	1222.6	1254.4	1312.1	1408.0	1422.1	1574.5	1681.7
25°	1264.5	1271.8	1265.3	1248.4	1233.5	1248.8	1304.4	1396.7	1410.0	1565.2	1679.7
27.5°	1333.0	1334.3	1329.0	1306.0	1267.3	1256.1	1301.2	1388.3	1399.6	1558.4	1669.6
30°	1425.0	1421.3	1416.5	1391.1	1330.2	1283.9	1308.1	1380.6	1392.3	1548.3	1657.5
32.5°	1518.1	1529.4	1524.9	1495.1	1416.1	1337.9	1330.2	1379.8	1389.5	1540.6	1644.2
35°	1616.8	1622.1	1643.0	1627.7	1546.7	1425.4	1371.7	1392.3	1400.0	1541.0	1635.0
37.5°	1694.2	1708.3	1757.5	1770.8	1694.6	1541.0	1439.1	1427.8	1431.0	1560.8	1638.6
40°	1787.7	1811.9	1875.2	1929.6	1879.7	1691.4	1553.5	1493.5	1497.5	1608.4	1662.4
42.5°	1906.3	1923.2	2008.2	2082.0	2073.9	1890.1	1692.2	1601.1	1603.1	1703.1	1728.9
45°	2044.9	2069.1	2164.6	2275.5	2294.4	2115.1	1892.6	1764.0	1762.8	1850.2	1853.0
47.5°	2222.3	2237.2	2331.9	2452.9	2529.4	2397.6	2135.6	1997.8	1984.9	2064.7	2041.7
50°	2385.5	2408.9	2480.7	2612.9	2803.6	2728.6	2455.3	2300.9	2270.7	2345.2	2306.5
52.5°	2454.1	2478.7	2539.1	2703.2	3038.6	3156.7	2861.2	2662.5	2612.1	2669.3	2655.2
55°	2335.2	2367.0	2423.4	2623.0	3141.8	3650.5	3408.6	3080.5	3043.8	3019.2	3023.2
57.5°	2015.5	2045.7	2121.9	2342.0	3018.4	4008.8	4190.2	3617.8	3539.2	3425.9	3445.3
60°	1534.2	1553.1	1592.6	1836.5	2652.8	4101.9	5077.8	4297.0	4247.1	3831.1	3844.8
62.5°	1089.6	1110.9	1138.4	1260.1	1942.1	3839.5	5772.8	5245.5	5067.0	4250.7	4237.4
65°	884.8	870.3	903.3	960.2	1139.6	2975.7	5929.2	6562.1	6316.2	4803.3	4618.7
67.5°	727.6	712.3	744.9	846.1	866.7	1727.3	5365.7	7416.6	7367.4	5404.3	5006.1
69°	644.2	636.1	664.7	780.0	832.0	1226.6	4674.3	7535.5	7547.2	5758.7	5065.7
70°	580.5	583.7	611.5	746.5	816.3	1011.4	3995.1	7371.5	7470.6	5935.6	5001.3
72.5°	427.3	434.1	472.8	618.4	801.4	858.2	2377.5	6438.7	6614.1	5946.1	4575.2
75°	298.7	295.5	329.7	465.6	757.0	850.5	1396.3	4979.5	5178.2	5139.5	3844.4
77.5°	195.5	200.7	228.2	328.9	636.9	844.1	910.2	3532.8	3661.8	3437.2	2273.9
80°	137.9	137.5	152.8	224.5	472.4	811.0	745.3	2226.7	2194.1	1350.8	674.4
82.5°	79.0	84.7	102.4	158.0	316.0	713.9	685.7	1065.0	972.3	385.0	227.8
85°	43.9	46.0	60.9	95.5	184.6	537.7	598.6	484.5	457.1	160.8	98.0
87.5°	14.1	15.3	25.4	48.4	83.8	254.0	339.0	223.7	206.4	58.0	39.5
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°	1680.9	1680.9	1680.9	1680.9	1680.9	1680.9	1680.9	1680.9	1680.9	1680.9	1680.9
2.5°	1683.3	1688.2	1675.3	1662.8	1651.5	1635.8	1621.7	1610.0	1601.9	1600.7	1596.7
5°	1689.0	1689.4	1664.8	1631.7	1599.5	1564.0	1527.3	1501.1	1476.6	1462.8	1456.0
7.5°	1693.0	1689.4	1645.0	1591.4	1529.4	1464.9	1400.4	1348.8	1308.9	1293.1	1299.2
10°	1691.4	1680.1	1615.2	1529.4	1439.1	1342.7	1250.0	1177.5	1110.9	1076.7	1077.5
12.5°	1682.5	1664.0	1570.9	1459.6	1327.0	1198.0	1056.1	958.2	881.2	835.6	821.5
15°	1674.9	1642.6	1518.9	1364.9	1200.0	1015.8	842.9	722.0	657.5	621.6	621.2
17.5°	1666.8	1622.1	1462.0	1264.5	1054.1	817.1	635.7	543.4	513.1	516.8	510.7
20°	1658.3	1597.9	1402.8	1152.9	876.3	609.5	476.1	438.6	447.0	463.6	466.0
22.5°	1648.7	1572.1	1339.1	1029.9	689.3	458.7	386.2	380.5	402.3	428.1	431.7
25°	1633.8	1539.8	1258.9	901.3	531.7	369.6	338.2	342.2	363.6	385.4	387.8
27.5°	1612.8	1499.9	1177.9	740.9	399.5	317.2	309.2	314.4	324.9	338.2	341.4
30°	1584.6	1454.8	1084.7	602.2	320.1	291.0	287.8	290.6	296.7	302.3	303.9
32.5°	1556.4	1411.3	990.8	461.1	285.4	273.7	270.5	270.5	270.5	271.3	271.7
35°	1530.2	1370.1	890.0	359.2	267.3	260.0	255.6	250.7	249.9	247.1	247.1
37.5°	1515.7	1332.6	782.8	300.7	254.0	248.7	242.7	234.6	230.2	230.6	229.8
40°	1518.5	1308.1	685.3	267.7	243.1	237.4	228.2	218.9	216.1	216.1	215.3
42.5°	1550.3	1300.0	591.7	250.3	232.6	226.1	214.4	206.0	204.4	204.0	204.8
45°	1623.7	1319.7	507.9	239.0	223.7	214.0	202.4	194.7	193.1	193.1	192.7
47.5°	1766.8	1383.8	447.8	231.8	217.3	204.8	192.7	185.0	182.2	181.4	181.4
50°	1989.3	1522.9	403.1	225.3	209.2	196.3	183.8	174.9	170.5	170.1	169.7
52.5°	2298.5	1739.8	385.8	220.5	200.3	187.4	173.7	165.3	159.6	158.4	157.6
55°	2660.1	2042.5	409.5	216.9	191.1	177.4	163.3	154.4	149.1	146.7	146.3
57.5°	3078.9	2406.1	499.8	212.0	182.6	166.5	152.8	143.9	138.3	135.4	134.6
60°	3455.0	2779.8	657.5	209.2	175.3	154.8	140.7	132.6	127.4	124.6	124.2
62.5°	3868.1	3136.1	845.7	216.9	172.1	143.5	129.4	122.1	117.7	114.9	114.9
65°	4309.5	3492.9	970.3	242.7	177.0	134.6	117.3	111.3	107.2	105.2	104.8
67.5°	4607.0	3616.2	799.3	269.3	189.1	125.0	105.6	100.8	98.4	96.3	96.3
69°	4574.8	3460.2	589.7	276.1	192.7	120.1	99.2	95.5	92.3	91.5	90.7
70°	4472.8	3282.4	494.2	271.7	189.9	115.7	95.1	90.7	87.9	87.1	86.7
72.5°	3983.8	2846.7	368.0	236.2	161.6	100.4	84.2	80.2	77.8	76.6	76.6
75°	3309.8	2326.7	287.4	187.8	126.6	84.7	72.2	68.9	66.9	66.1	65.7
77.5°	1855.1	1299.2	206.4	147.1	95.9	68.5	60.5	57.6	55.6	54.8	54.8
80°	516.8	371.3	121.3	97.1	65.3	52.0	48.0	46.0	43.1	41.1	42.3
82.5°	194.7	160.8	69.3	58.4	41.5	34.7	33.5	31.8	30.6	27.8	27.8
85°	94.7	78.2	44.3	31.0	23.0	18.1	17.3	16.5	15.7	13.7	14.1
87.5°	32.7	34.7	19.3	11.3	6.9	4.4	3.6	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)