

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: P451125

Luminaire Tested: **GALN-SA2A-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451125
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-SA2A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7677 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

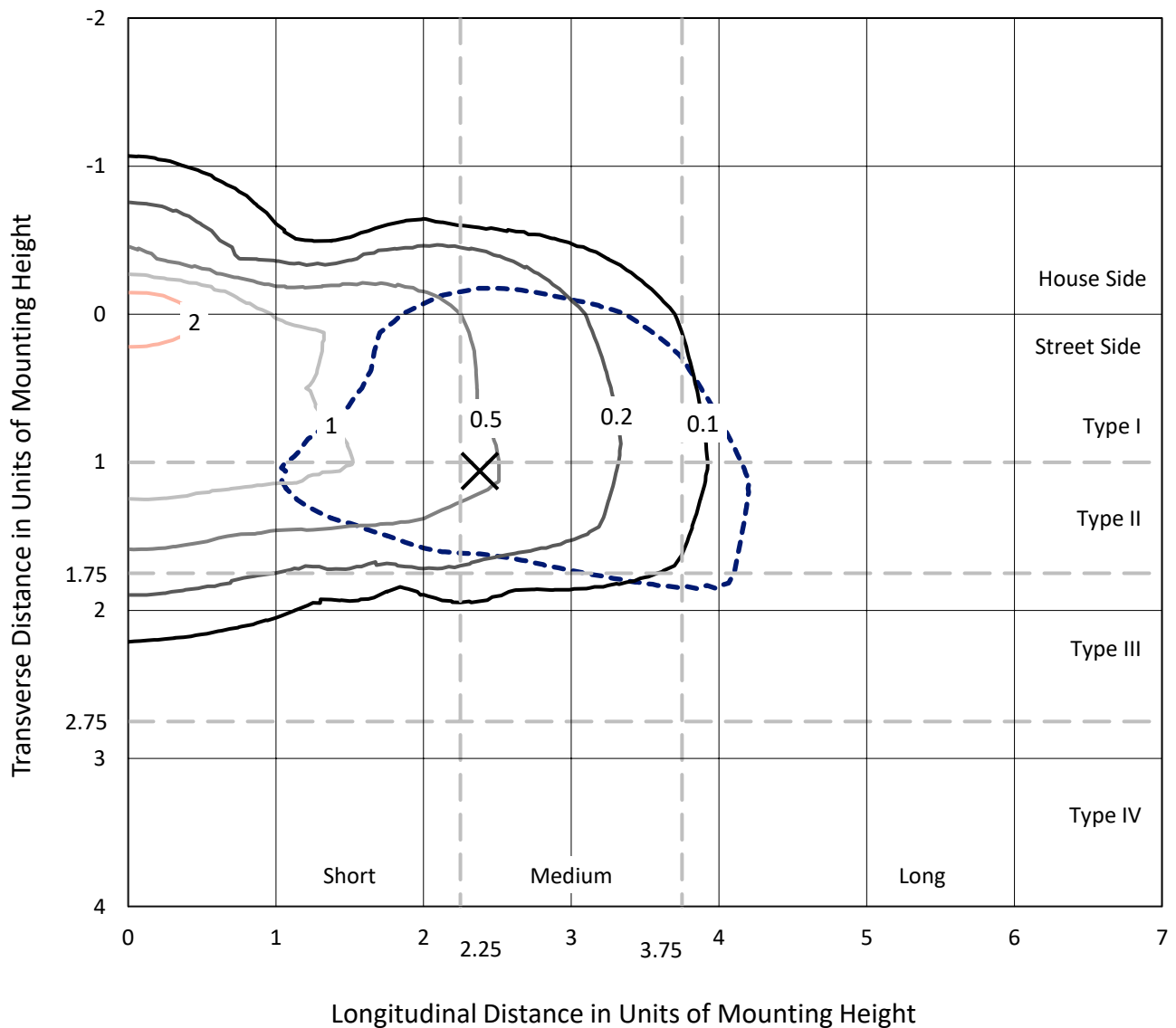
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

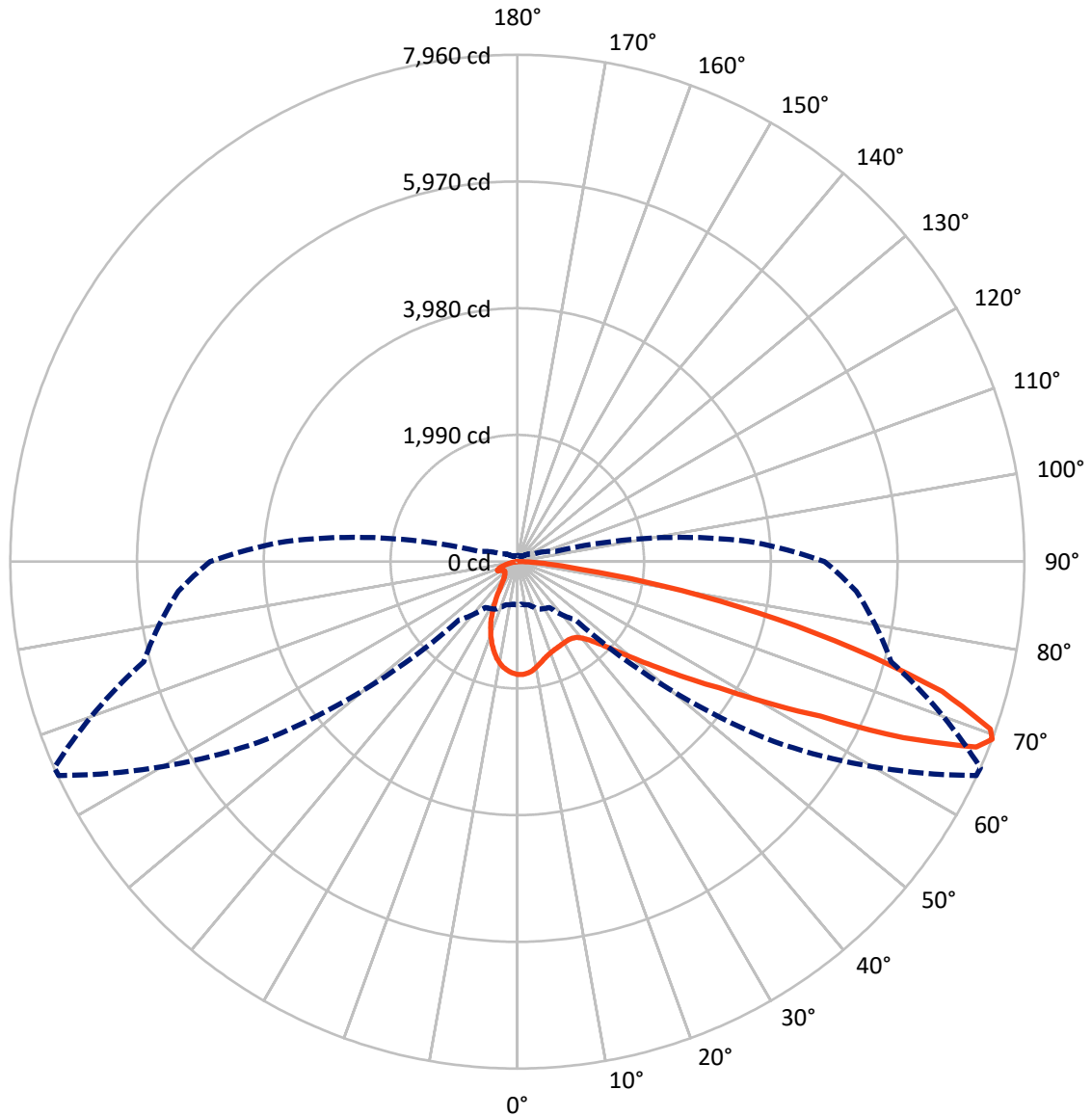
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	1443.8	0.0	1443.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6233.2	0.0	6233.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	7677.0	0.0	7677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	2.0
10°-20°	365.2	4.8
20°-30°	497.1	6.5
30°-40°	668.0	8.7
40°-50°	997.5	13.0
50°-60°	1586.6	20.7
60°-70°	1951.5	25.4
70°-80°	1269.7	16.5
80°-90°	187.5	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°	7677.0	100.0
0°-180°	7677.0	100.0

Coefficient of Utilization



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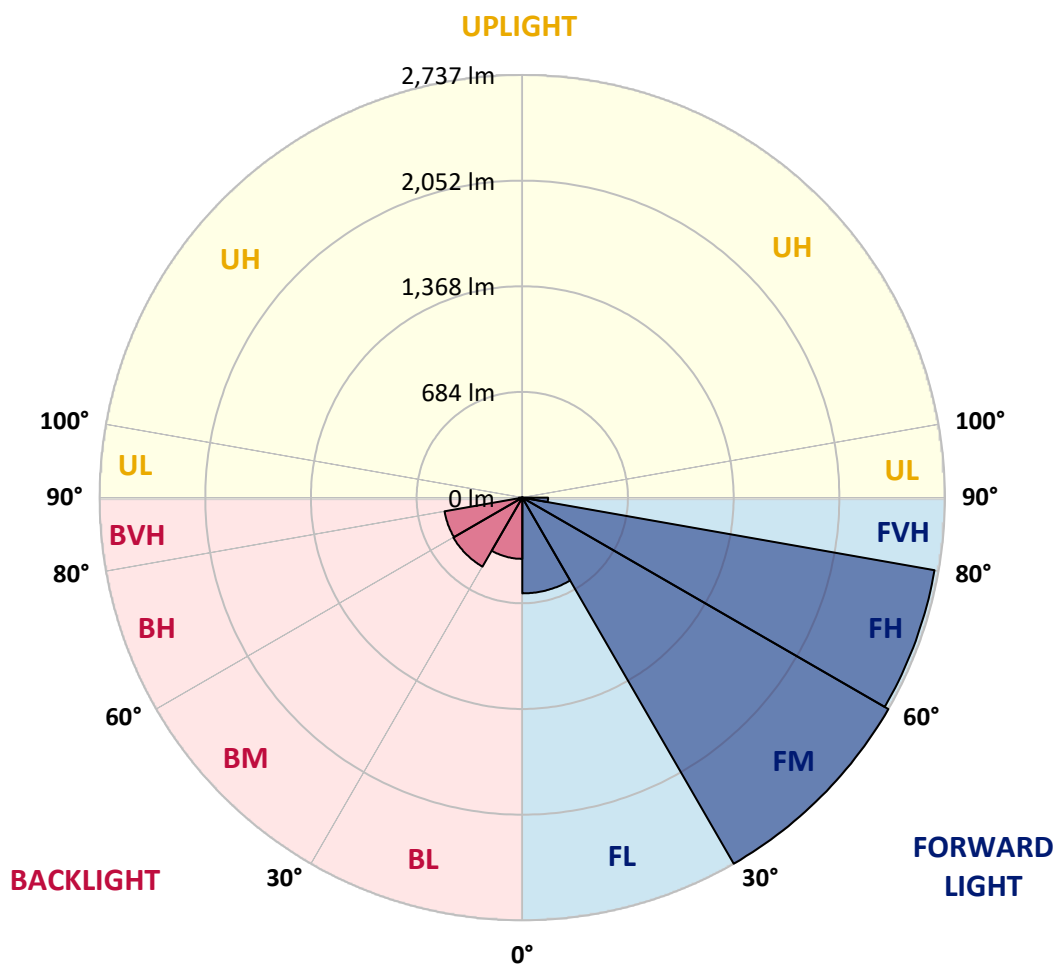
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.9	8.1			
FM (30°-60°)	2736.6	35.6			
FH (60°-80°)	2710.0	35.3			G2/5000
FVH (80°-90°)	166.7	2.2			G2/225
BL (0°-30°)	396.3	5.2	B1/500		
BM (30°-60°)	515.5	6.7	B1/1000		
BH (60°-80°)	511.2	6.7	B2/1000		G2/1000
BVH (80°-90°)	20.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8
2.5°	1710.8	1717.6	1725.2	1733.7	1749.9	1758.8	1765.2	1772.4	1773.3	1777.1	1774.1
5°	1584.5	1592.6	1604.1	1620.2	1644.4	1682.3	1721.4	1753.3	1757.1	1775.0	1780.1
7.5°	1479.1	1483.7	1493.1	1519.0	1553.5	1595.5	1652.5	1717.1	1726.5	1769.0	1783.9
10°	1393.2	1397.9	1408.9	1435.7	1469.7	1522.4	1584.9	1669.9	1677.6	1750.7	1784.7
12.5°	1329.0	1333.2	1345.1	1371.5	1410.6	1459.9	1528.8	1618.9	1630.0	1726.5	1776.7
15°	1280.1	1288.2	1298.0	1319.6	1360.9	1408.5	1475.2	1572.2	1581.1	1701.0	1771.1
17.5°	1259.3	1263.1	1269.9	1289.9	1320.1	1366.8	1434.0	1535.6	1546.2	1683.1	1769.9
20°	1260.1	1263.9	1265.2	1276.3	1298.0	1338.3	1404.7	1506.7	1519.4	1667.4	1772.0
22.5°	1289.0	1289.4	1284.8	1280.9	1289.4	1323.0	1383.8	1485.0	1499.9	1660.6	1773.7
25°	1333.7	1341.3	1334.5	1316.7	1300.9	1317.1	1375.8	1473.1	1487.1	1650.8	1771.6
27.5°	1405.9	1407.2	1401.7	1377.5	1336.6	1324.7	1372.4	1464.2	1476.1	1643.6	1760.9
30°	1502.9	1499.0	1493.9	1467.2	1403.0	1354.1	1379.6	1456.1	1468.4	1633.0	1748.2
32.5°	1601.1	1613.0	1608.3	1576.8	1493.5	1411.0	1403.0	1455.3	1465.5	1624.9	1734.1
35°	1705.2	1710.8	1732.9	1716.7	1631.3	1503.3	1446.8	1468.4	1476.5	1625.3	1724.4
37.5°	1786.9	1801.7	1853.6	1867.6	1787.3	1625.3	1517.7	1505.8	1509.2	1646.1	1728.2
40°	1885.5	1911.0	1977.7	2035.1	1982.4	1783.9	1638.5	1575.1	1579.4	1696.3	1753.3
42.5°	2010.5	2028.3	2118.0	2195.8	2187.3	1993.5	1784.7	1688.7	1690.8	1796.2	1823.4
45°	2156.7	2182.2	2283.0	2399.9	2419.9	2230.7	1996.0	1860.4	1859.1	1951.4	1954.4
47.5°	2343.8	2359.5	2459.4	2587.0	2667.8	2528.7	2252.4	2107.0	2093.4	2177.6	2153.3
50°	2516.0	2540.6	2616.3	2755.8	2956.8	2877.8	2589.5	2426.7	2394.8	2473.5	2432.6
52.5°	2588.3	2614.2	2678.0	2851.0	3204.7	3329.3	3017.6	2808.0	2754.9	2815.3	2800.4
55°	2462.8	2496.4	2555.9	2766.4	3313.5	3850.1	3595.0	3248.9	3210.2	3184.3	3188.5
57.5°	2125.7	2157.6	2237.9	2470.1	3183.4	4228.0	4419.3	3815.6	3732.7	3613.3	3633.7
60°	1618.1	1638.1	1679.7	1936.9	2797.8	4326.2	5355.5	4532.0	4479.3	4040.5	4055.0
62.5°	1149.2	1171.7	1200.6	1329.0	2048.3	4049.5	6088.4	5532.3	5344.0	4483.1	4469.1
65°	933.2	917.9	952.7	1012.7	1201.9	3138.4	6253.4	6920.8	6661.5	5066.0	4871.3
67.5°	767.4	751.2	785.7	892.4	914.1	1821.7	5659.0	7822.1	7770.3	5699.8	5279.8
69°	679.4	670.9	701.1	822.6	877.5	1293.7	4929.9	7947.6	7959.9	6073.5	5342.7
70°	612.2	615.6	644.9	787.4	860.9	1066.7	4213.6	7774.5	7879.1	6260.2	5274.7
72.5°	450.6	457.9	498.7	652.2	845.2	905.1	2507.5	6790.8	6975.7	6271.2	4825.3
75°	315.0	311.6	347.8	491.0	798.4	897.0	1472.7	5251.8	5461.3	5420.5	4054.6
77.5°	206.2	211.7	240.6	346.9	671.7	890.2	960.0	3725.9	3862.0	3625.2	2398.2
80°	145.4	145.0	161.1	236.8	498.3	855.4	786.1	2348.5	2314.0	1424.6	711.3
82.5°	83.3	89.3	108.0	166.7	333.3	752.9	723.2	1123.2	1025.4	406.0	240.2
85°	46.3	48.5	64.2	100.8	194.7	567.1	631.3	511.0	482.1	169.6	103.3
87.5°	14.9	16.2	26.8	51.0	88.4	267.8	357.5	236.0	217.7	61.2	41.7
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°	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8
2.5°	1775.4	1780.5	1766.9	1753.7	1741.8	1725.2	1710.3	1698.0	1689.5	1688.2	1684.0
5°	1781.3	1781.8	1755.8	1721.0	1687.0	1649.5	1610.9	1583.2	1557.3	1542.8	1535.6
7.5°	1785.6	1781.8	1735.0	1678.5	1613.0	1545.0	1476.9	1422.5	1380.4	1363.8	1370.2
10°	1783.9	1772.0	1703.5	1613.0	1517.7	1416.1	1318.4	1241.8	1171.7	1135.5	1136.4
12.5°	1774.5	1755.0	1656.8	1539.4	1399.6	1263.5	1113.9	1010.6	929.4	881.3	866.4
15°	1766.5	1732.4	1601.9	1439.5	1265.6	1071.4	889.0	761.4	693.4	655.6	655.1
17.5°	1758.0	1710.8	1542.0	1333.7	1111.7	861.8	670.4	573.1	541.2	545.0	538.7
20°	1749.0	1685.3	1479.5	1215.9	924.3	642.8	502.1	462.6	471.5	488.9	491.5
22.5°	1738.8	1658.0	1412.3	1086.2	727.0	483.8	407.3	401.3	424.3	451.5	455.3
25°	1723.1	1624.0	1327.7	950.6	560.8	389.9	356.7	360.9	383.5	406.4	409.0
27.5°	1701.0	1581.9	1242.3	781.4	421.3	334.6	326.1	331.6	342.7	356.7	360.1
30°	1671.2	1534.3	1144.1	635.2	337.6	307.0	303.5	306.5	312.9	318.9	320.6
32.5°	1641.5	1488.4	1045.0	486.4	301.0	288.7	285.3	285.3	285.3	286.1	286.5
35°	1613.8	1445.0	938.7	378.8	281.9	274.2	269.5	264.4	263.6	260.6	260.6
37.5°	1598.5	1405.5	825.6	317.2	267.8	262.3	255.9	247.4	242.8	243.2	242.3
40°	1601.5	1379.6	722.7	282.3	256.4	250.4	240.6	230.9	227.9	227.9	227.0
42.5°	1635.1	1371.1	624.1	264.0	245.3	238.5	226.2	217.2	215.5	215.1	216.0
45°	1712.5	1391.9	535.7	252.1	236.0	225.7	213.4	205.3	203.6	203.6	203.2
47.5°	1863.4	1459.5	472.3	244.5	229.2	216.0	203.2	195.1	192.2	191.3	191.3
50°	2098.1	1606.2	425.1	237.7	220.6	207.0	193.9	184.5	179.8	179.4	179.0
52.5°	2424.1	1834.9	406.9	232.6	211.3	197.7	183.2	174.3	168.4	167.1	166.2
55°	2805.5	2154.2	431.9	228.7	201.5	187.1	172.2	162.8	157.3	154.8	154.3
57.5°	3247.2	2537.7	527.2	223.6	192.6	175.6	161.1	151.8	145.8	142.8	142.0
60°	3643.9	2931.8	693.4	220.6	184.9	163.3	148.4	139.9	134.3	131.4	130.9
62.5°	4079.6	3307.6	891.9	228.7	181.5	151.3	136.5	128.8	124.1	121.2	121.2
65°	4545.2	3683.8	1023.3	255.9	186.6	142.0	123.7	117.3	113.1	111.0	110.5
67.5°	4858.9	3813.9	843.1	284.0	199.4	131.8	111.4	106.3	103.7	101.6	101.6
69°	4824.9	3649.4	622.0	291.2	203.2	126.7	104.6	100.8	97.4	96.5	95.7
70°	4717.4	3461.9	521.2	286.5	200.2	122.0	100.3	95.7	92.7	91.8	91.4
72.5°	4201.7	3002.3	388.2	249.1	170.5	105.9	88.9	84.6	82.1	80.8	80.8
75°	3490.8	2453.9	303.1	198.1	133.5	89.3	76.1	72.7	70.6	69.7	69.3
77.5°	1956.5	1370.2	217.7	155.2	101.2	72.3	63.8	60.8	58.7	57.8	57.8
80°	545.0	391.6	128.0	102.5	68.9	54.8	50.6	48.5	45.5	43.4	44.6
82.5°	205.3	169.6	73.1	61.6	43.8	36.6	35.3	33.6	32.3	29.3	29.3
85°	99.9	82.5	46.8	32.7	24.2	19.1	18.3	17.4	16.6	14.5	14.9
87.5°	34.4	36.6	20.4	11.9	7.2	4.7	3.8	2.1	2.1	2.1	2.1
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)