

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: P451171

Luminaire Tested: **GALN-SA2A-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451171
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-SA2A-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8571 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

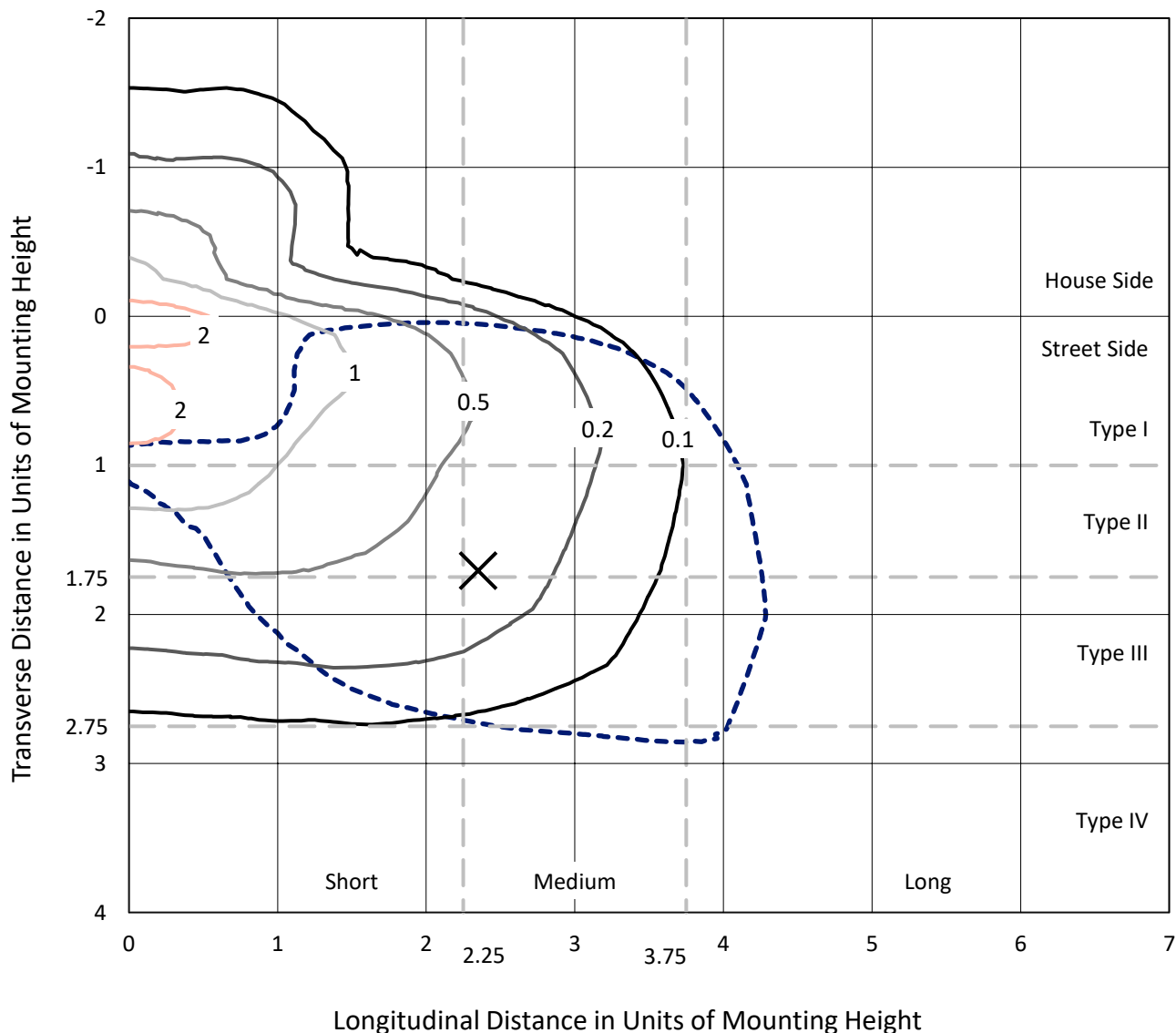
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

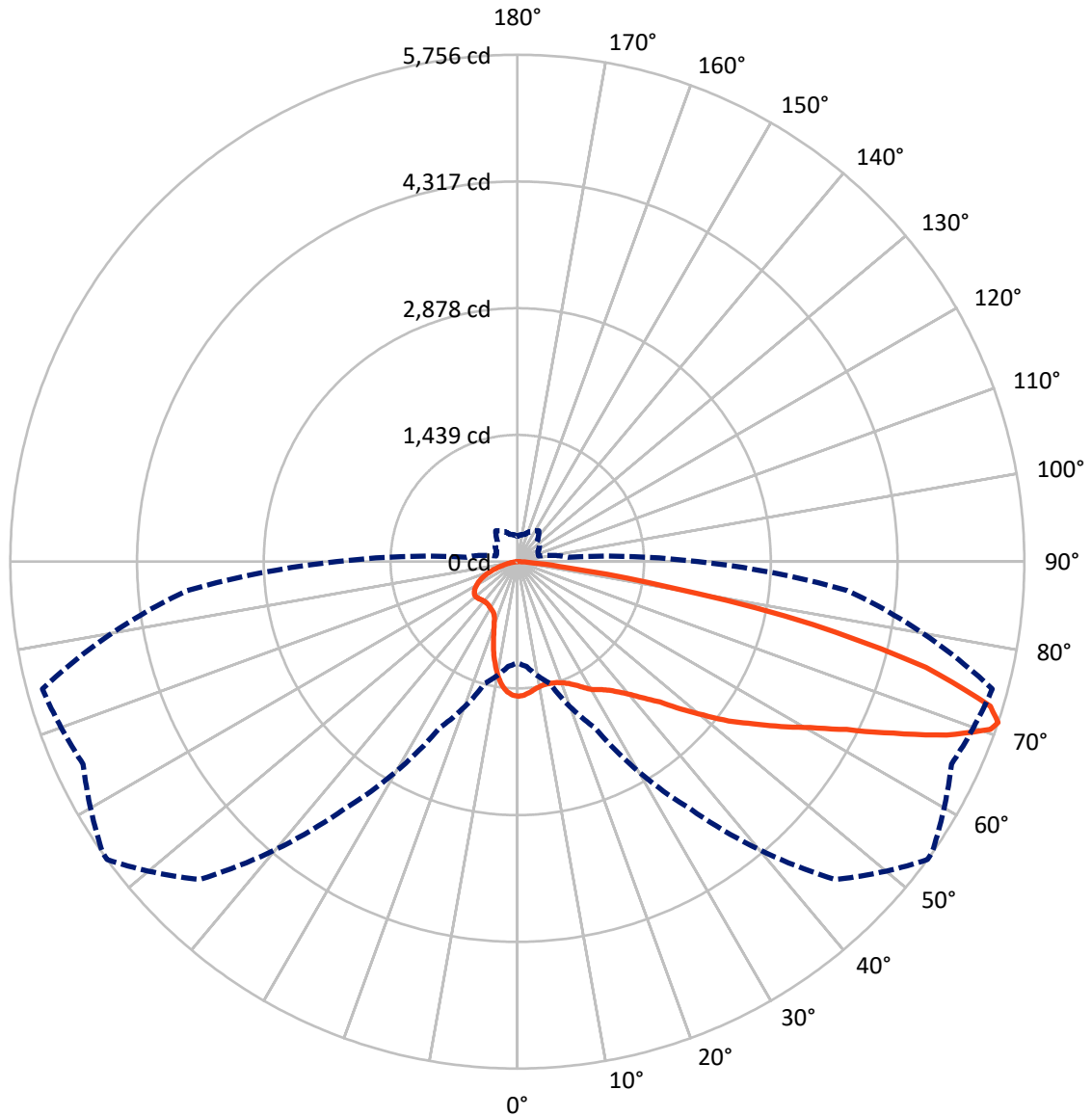
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	1547.4	0.0	1547.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7023.6	0.0	7023.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	8571.0	0.0	8571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	1.6
10°-20°	359.8	4.2
20°-30°	599.1	7.0
30°-40°	885.9	10.3
40°-50°	1247.9	14.6
50°-60°	1670.9	19.5
60°-70°	2106.1	24.6
70°-80°	1438.4	16.8
80°-90°	126.5	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°	8571.0	100.0
0°-180°	8571.0	100.0

Coefficient of Utilization



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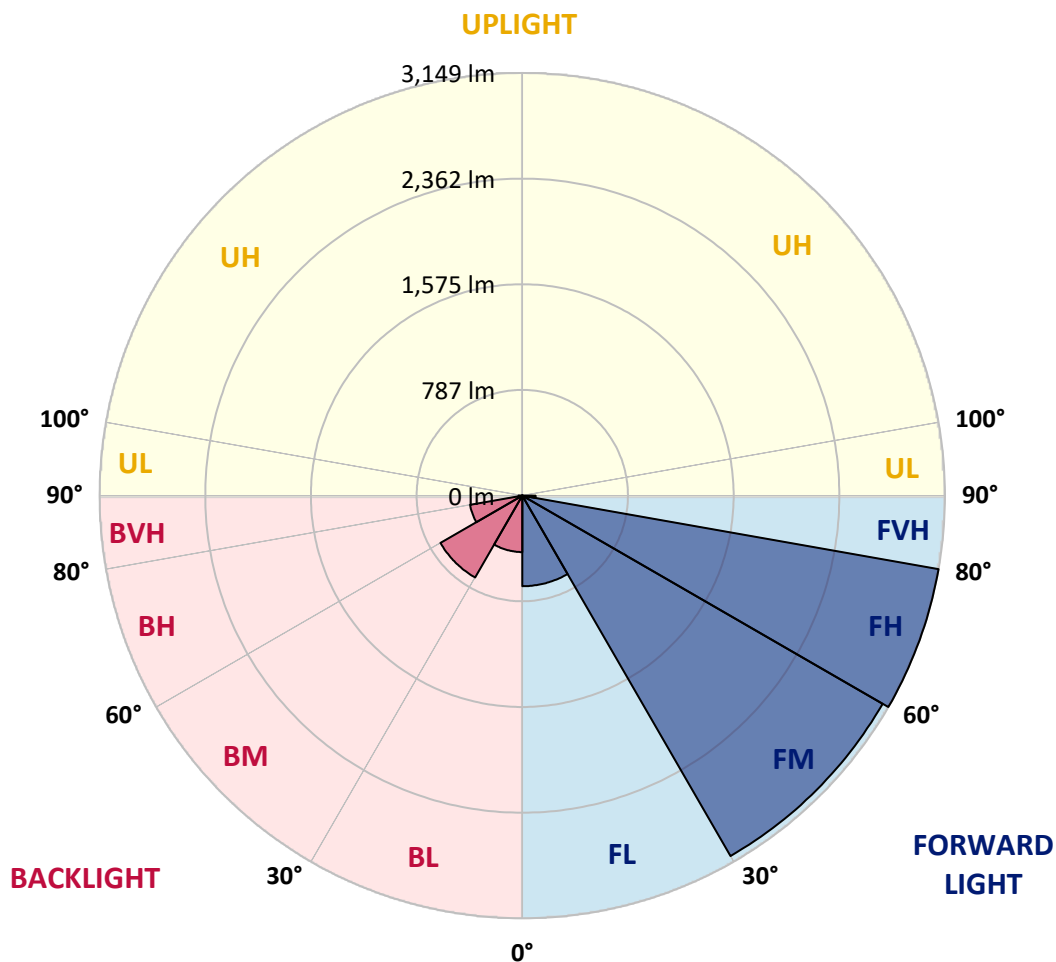
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	674.7	7.9			
FM (30°-60°)	3100.7	36.2			
FH (60°-80°)	3149.3	36.7			G2/5000
FVH (80°-90°)	98.9	1.2			G1/100
BL (0°-30°)	420.6	4.9	B1/500		
BM (30°-60°)	704.0	8.2	B1/1000		
BH (60°-80°)	395.2	4.6	B1/500		G1/500
BVH (80°-90°)	27.6	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°	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2
2.5°	1477.3	1484.3	1486.1	1490.8	1500.5	1508.4	1516.2	1515.3	1526.4	1531.0	1535.2
5°	1411.6	1413.5	1420.4	1429.7	1446.8	1468.5	1489.8	1490.3	1517.6	1539.4	1550.0
7.5°	1363.4	1369.5	1374.1	1383.8	1401.9	1425.5	1459.3	1462.1	1510.7	1553.7	1576.4
10°	1332.0	1338.9	1344.0	1356.0	1374.1	1400.5	1437.1	1442.2	1505.6	1576.4	1616.2
12.5°	1303.3	1310.2	1314.8	1330.6	1354.2	1386.6	1427.8	1433.8	1507.4	1602.8	1659.8
15°	1320.9	1326.4	1324.6	1329.2	1344.9	1382.0	1431.5	1437.5	1514.4	1628.3	1702.8
17.5°	1399.1	1403.7	1388.5	1370.9	1363.4	1390.8	1443.1	1449.6	1528.3	1654.7	1746.8
20°	1514.4	1526.9	1493.5	1454.2	1418.5	1422.2	1467.2	1474.1	1547.7	1681.0	1791.7
22.5°	1664.4	1673.6	1632.9	1568.1	1502.3	1468.5	1503.3	1507.4	1576.9	1715.3	1840.8
25°	1840.8	1846.3	1789.8	1706.5	1611.6	1547.7	1552.8	1560.2	1625.0	1754.2	1884.3
27.5°	2012.1	2029.7	1964.4	1862.5	1737.5	1631.0	1620.9	1625.5	1677.3	1776.0	1914.4
30°	2215.3	2213.9	2144.9	2026.9	1866.7	1721.8	1685.2	1684.3	1705.6	1786.6	1936.1
32.5°	2377.4	2396.3	2328.7	2200.0	2014.4	1815.8	1729.7	1727.8	1727.3	1805.1	1968.6
35°	2561.6	2564.4	2502.4	2372.7	2174.1	1933.8	1791.7	1782.4	1771.8	1844.9	2012.5
37.5°	2726.4	2739.4	2682.5	2537.1	2331.1	2056.5	1876.9	1870.9	1838.5	1913.9	2082.9
40°	2855.1	2864.9	2830.6	2692.2	2485.7	2188.9	1985.2	1974.1	1934.8	2026.9	2176.9
42.5°	2897.3	2917.2	2930.6	2862.5	2663.5	2345.9	2118.6	2104.7	2074.6	2198.2	2285.2
45°	2900.5	2932.0	3002.8	3006.1	2842.2	2533.8	2274.1	2264.4	2262.1	2417.6	2437.5
47.5°	2876.0	2907.9	3026.9	3091.3	3001.4	2723.7	2498.7	2483.4	2484.8	2688.9	2608.4
50°	2816.7	2854.7	2999.1	3145.9	3126.0	2920.9	2735.7	2730.6	2759.3	2998.7	2785.7
52.5°	2705.1	2751.0	2970.4	3180.1	3218.6	3090.8	3005.1	2990.8	3063.5	3334.8	2979.7
55°	2396.3	2465.3	2865.3	3199.1	3306.5	3253.3	3247.7	3273.7	3370.0	3701.5	3193.1
57.5°	2235.2	2287.1	2637.1	3202.4	3417.7	3442.2	3531.1	3537.6	3706.1	4090.8	3434.3
60°	2147.3	2193.1	2512.1	3181.1	3572.7	3676.0	3820.9	3844.0	4034.3	4512.6	3684.3
62.5°	2070.4	2109.8	2437.1	3107.5	3747.8	4022.8	4196.4	4207.5	4407.0	4978.3	3931.1
65°	1889.4	1934.3	2286.2	3033.8	3898.7	4456.1	4694.5	4681.6	4803.8	5380.2	4085.7
67.5°	1645.4	1702.3	2004.2	2779.7	3973.2	4929.7	5255.6	5239.4	5195.5	5643.6	4130.2
70°	1333.8	1364.4	1643.5	2340.3	3675.5	5178.3	5698.7	5681.6	5438.1	5678.3	3920.0
71°	1147.7	1195.4	1431.0	2078.7	3427.8	5102.4	5755.7	5751.0	5438.5	5582.5	3761.6
72.5°	895.8	925.0	1133.4	1610.7	2913.5	4670.9	5614.9	5632.5	5320.5	5316.3	3435.2
75°	566.7	579.6	711.1	948.2	1598.6	3307.9	4793.1	4840.8	4724.2	4351.5	2554.7
77.5°	329.2	345.8	425.9	558.8	690.8	1795.4	3429.7	3481.5	3282.5	2395.9	1045.9
80°	191.7	210.2	280.6	324.5	317.1	666.2	1746.3	1834.8	1421.3	605.1	293.5
82.5°	106.5	119.0	197.2	197.7	169.0	217.6	549.5	575.0	405.6	244.0	119.9
85°	77.3	87.5	127.3	115.3	81.0	93.5	191.2	200.5	163.9	102.8	38.9
87.5°	27.3	38.9	69.9	55.6	22.2	19.4	55.1	44.9	41.7	28.7	8.8
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°	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2
2.5°	1537.5	1538.5	1533.8	1525.5	1517.2	1506.5	1494.5	1485.2	1481.0	1480.6	1480.1
5°	1554.2	1556.5	1538.9	1513.0	1484.3	1449.1	1419.0	1384.7	1375.9	1362.1	1366.2
7.5°	1581.0	1579.7	1544.9	1489.8	1422.7	1348.2	1285.2	1248.6	1210.7	1200.0	1200.5
10°	1619.5	1610.7	1544.9	1442.6	1330.6	1219.9	1132.0	1076.4	1046.3	1021.3	1012.1
12.5°	1660.2	1638.0	1530.1	1376.4	1212.1	1076.4	982.0	907.0	887.5	867.1	867.6
15°	1699.1	1662.1	1501.0	1283.4	1084.3	923.2	831.5	786.6	780.6	782.9	782.4
17.5°	1734.3	1679.2	1456.5	1179.7	935.2	791.7	743.1	746.3	762.5	774.1	775.5
20°	1769.9	1689.4	1390.3	1040.8	794.5	712.0	713.9	739.4	763.9	779.6	782.0
22.5°	1803.7	1694.0	1312.5	906.5	692.6	678.3	705.6	732.9	757.0	772.2	774.6
25°	1826.0	1683.4	1202.3	766.2	642.6	666.2	694.9	718.1	738.4	754.2	757.9
27.5°	1832.0	1649.1	1065.8	652.8	619.5	654.6	681.0	698.2	713.9	728.7	731.5
30°	1828.7	1598.6	915.8	586.1	606.0	641.2	661.6	674.1	693.1	704.6	707.0
32.5°	1823.6	1539.8	759.3	550.5	594.9	628.7	640.8	651.9	651.4	646.8	650.0
35°	1825.5	1469.5	632.4	529.2	585.2	619.5	629.6	615.8	575.9	574.1	572.2
37.5°	1835.2	1400.0	540.3	514.4	580.1	618.1	623.6	559.7	524.5	508.3	504.2
40°	1860.2	1319.0	479.6	503.2	579.6	628.7	596.3	531.5	463.9	432.4	430.1
42.5°	1893.6	1239.4	442.6	496.3	585.2	644.9	585.2	491.7	418.1	399.5	396.8
45°	1943.1	1148.2	422.2	493.1	593.5	650.9	581.5	462.5	399.5	384.7	384.7
47.5°	1999.1	1061.1	411.1	490.7	604.2	646.8	548.6	453.2	390.7	392.6	401.4
50°	2054.7	985.7	402.8	485.7	613.4	644.5	535.2	452.8	393.1	416.7	432.4
52.5°	2119.0	932.4	392.6	477.3	613.4	629.6	531.0	462.0	399.5	406.5	413.4
55°	2196.8	915.8	379.6	459.3	602.3	592.6	528.7	475.5	404.2	388.0	390.7
57.5°	2299.6	942.6	367.1	436.6	576.9	554.2	527.8	479.2	393.5	380.1	377.3
60°	2419.0	995.9	363.4	413.4	542.1	521.3	522.2	468.5	378.7	364.8	367.1
62.5°	2502.8	1027.8	361.1	395.8	504.2	485.2	508.8	455.6	372.2	360.2	362.5
65°	2502.8	988.9	339.8	369.0	455.1	441.7	492.6	439.4	363.9	350.0	347.7
67.5°	2407.9	875.5	307.4	328.7	400.9	392.1	469.9	419.9	351.4	340.7	335.2
70°	2160.7	663.9	266.7	281.5	332.4	340.3	440.7	393.5	330.6	317.6	309.3
71°	2051.9	578.3	249.5	257.4	306.0	317.6	426.9	382.4	321.3	302.8	288.0
72.5°	1842.2	487.0	223.6	226.9	261.6	282.4	397.7	361.1	303.7	277.3	260.7
75°	1399.6	355.6	180.1	178.2	193.5	224.1	336.6	321.8	266.2	230.6	220.8
77.5°	604.6	193.5	134.7	136.1	131.5	169.9	264.8	276.4	228.2	187.5	178.7
80°	183.3	111.6	92.1	94.0	88.0	113.9	186.6	216.7	183.3	145.8	133.8
82.5°	94.0	66.7	63.0	62.0	56.0	64.4	113.0	148.2	131.0	91.2	80.6
85°	40.7	35.6	31.0	30.1	26.4	23.1	40.3	74.1	69.4	50.9	48.6
87.5°	10.2	9.3	6.0	5.6	3.2	0.5	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)