

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: P458640

Luminaire Tested: **GALN-SA2A-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8386 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

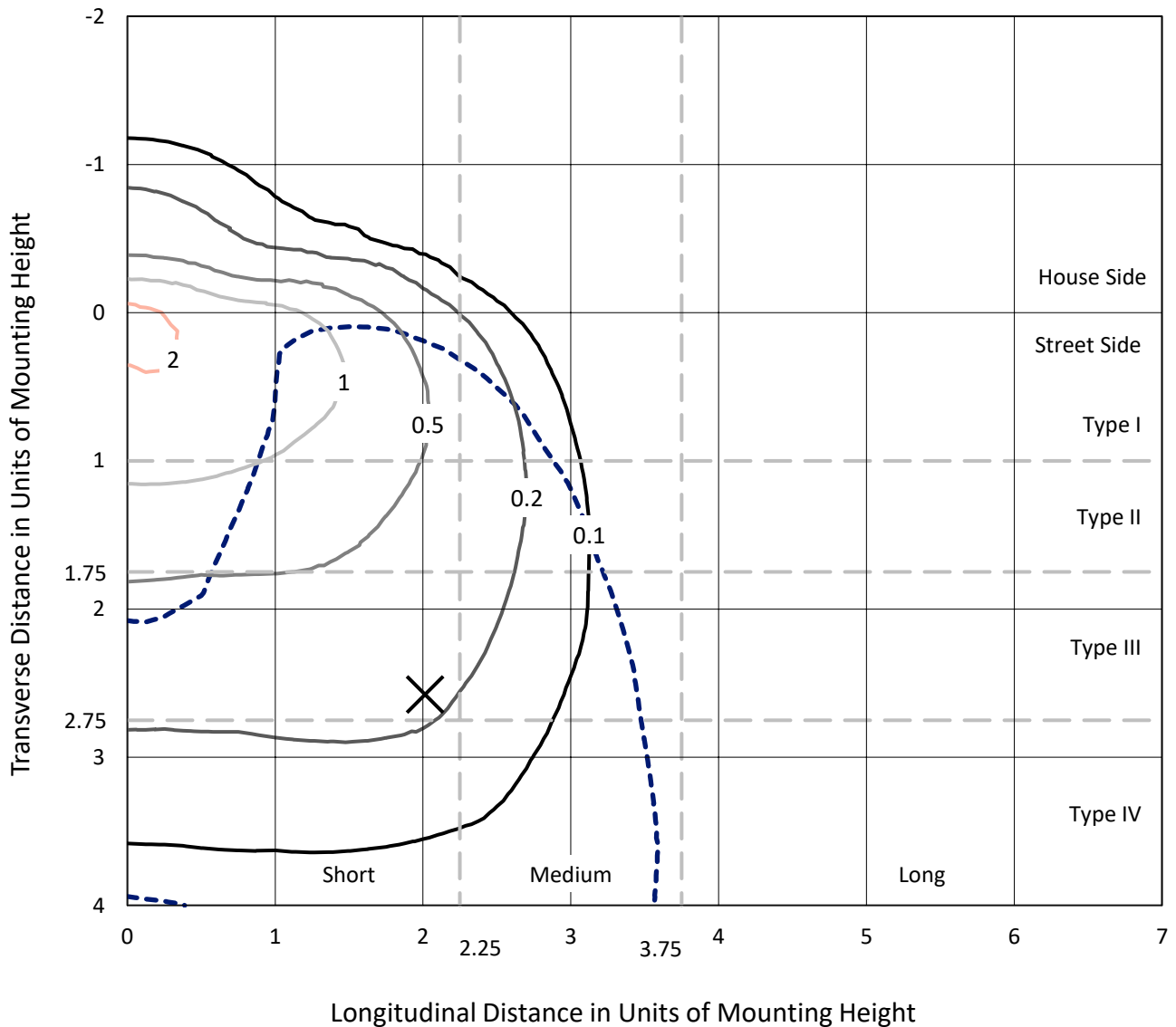
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

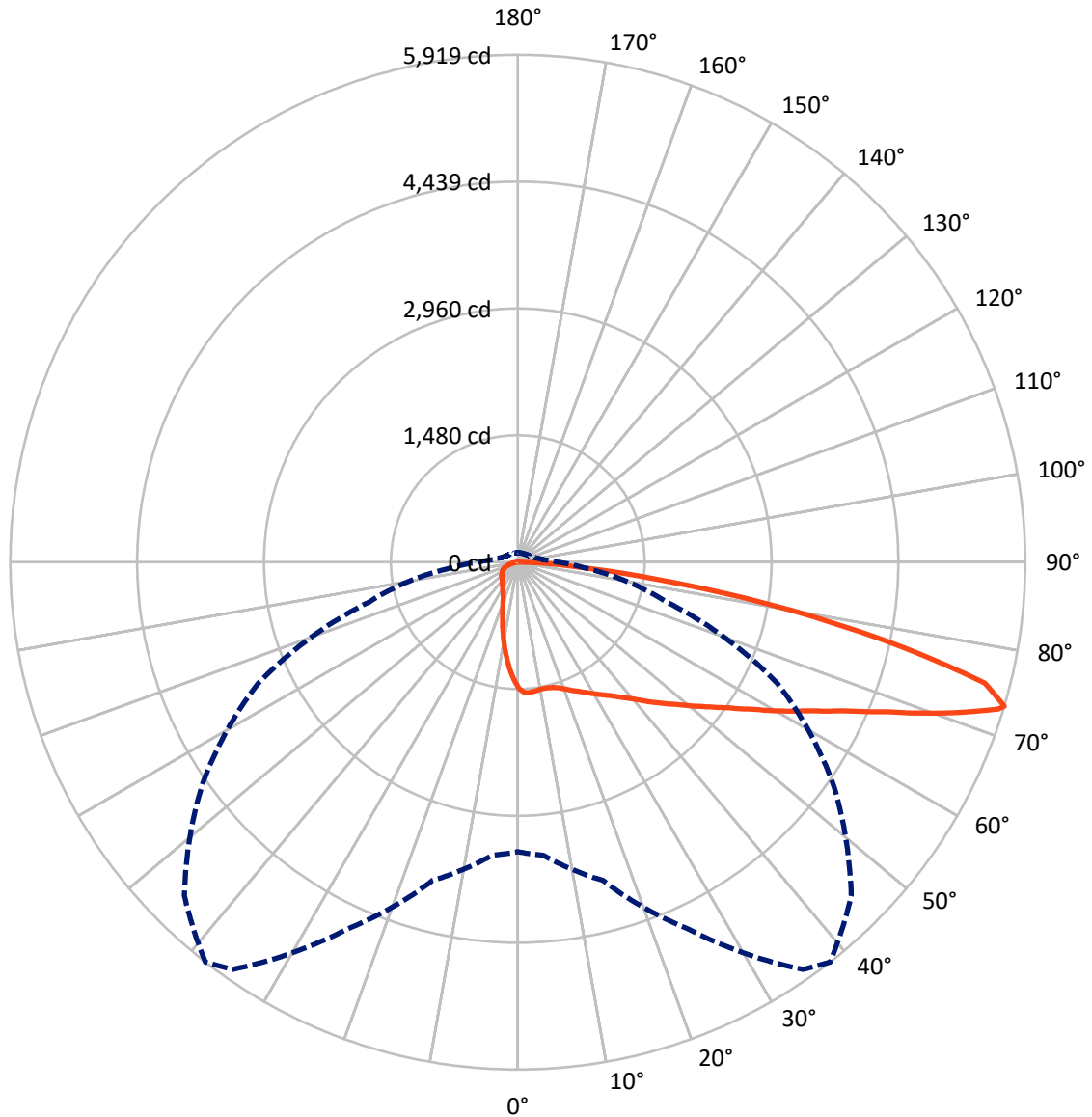
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1127.3	0.0	1127.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	7258.7	0.0	7258.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	8386.0	0.0	8386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	1.5
10°-20°	329.8	3.9
20°-30°	513.5	6.1
30°-40°	753.2	9.0
40°-50°	1117.3	13.3
50°-60°	1583.0	18.9
60°-70°	2008.1	23.9
70°-80°	1671.6	19.9
80°-90°	280.9	3.3
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°	8386.0	100.0
0°-180°	8386.0	100.0

Coefficient of Utilization



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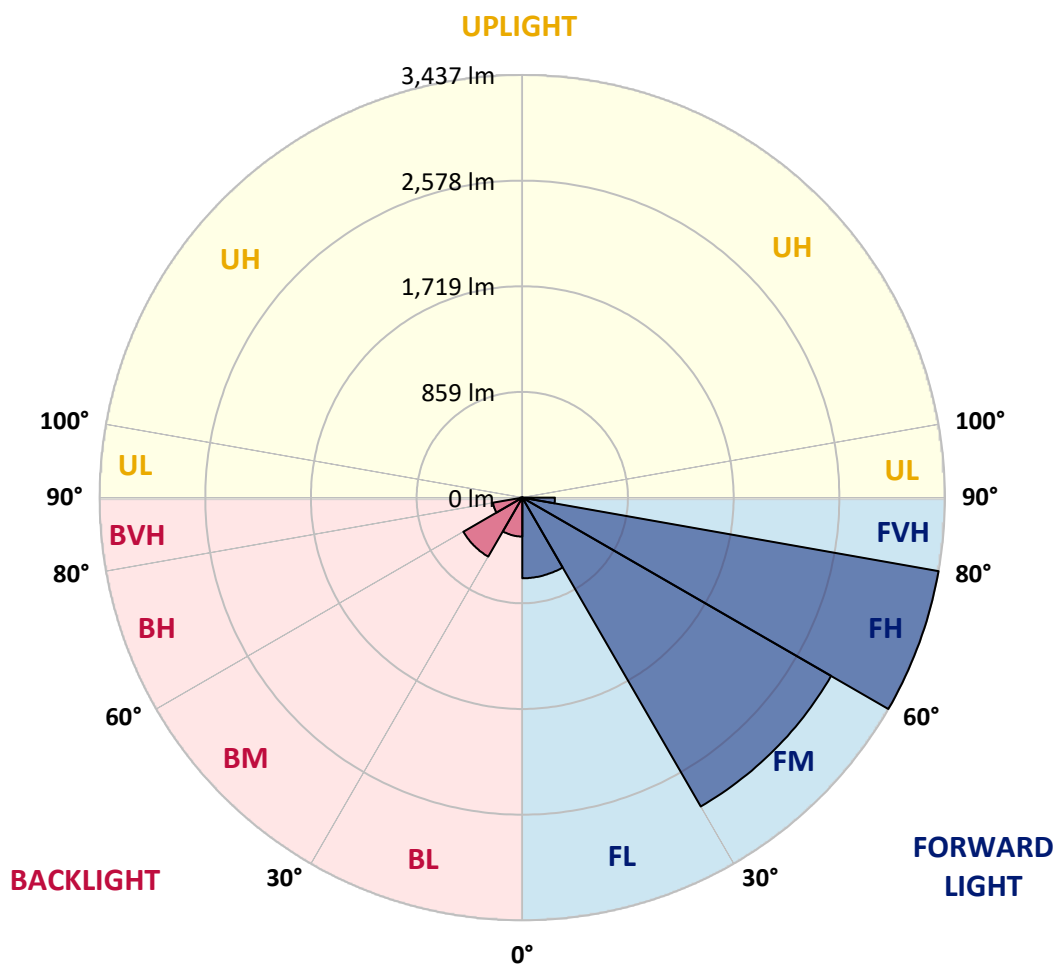
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.6	7.8			
FM (30°-60°)	2900.1	34.6			
FH (60°-80°)	3437.4	41.0			G2/5000
FVH (80°-90°)	265.6	3.2			G3/500
BL (0°-30°)	316.3	3.8	B1/500		
BM (30°-60°)	553.5	6.6	B1/1000		
BH (60°-80°)	242.3	2.9	B1/500		G1/500
BVH (80°-90°)	15.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1473.3	1473.3	1473.3	1473.3	1473.3	1473.3	1473.3	1473.3	1473.3	1473.3	1473.3
2.5°	1532.5	1540.1	1536.3	1531.1	1527.7	1524.4	1519.7	1506.0	1495.1	1483.2	1464.8
5°	1543.8	1548.6	1545.3	1538.6	1531.1	1527.7	1518.7	1500.7	1483.2	1463.3	1435.9
7.5°	1537.2	1539.1	1535.3	1527.3	1520.6	1514.5	1504.1	1484.2	1462.9	1438.7	1402.7
10°	1513.5	1520.6	1520.6	1514.0	1507.4	1504.1	1493.6	1474.7	1455.3	1427.8	1385.2
12.5°	1494.1	1501.7	1507.8	1506.0	1505.5	1505.5	1497.4	1483.2	1460.5	1434.4	1383.8
15°	1480.9	1489.9	1503.1	1510.7	1515.4	1516.8	1513.5	1501.2	1478.0	1447.7	1389.5
17.5°	1478.0	1488.9	1513.1	1529.6	1541.9	1541.5	1540.5	1523.5	1497.9	1466.6	1396.6
20°	1490.8	1505.0	1538.6	1564.7	1582.7	1579.4	1574.1	1551.9	1522.1	1487.0	1403.2
22.5°	1529.2	1543.8	1580.8	1609.2	1626.7	1626.7	1611.1	1581.7	1550.0	1510.7	1412.2
25°	1584.1	1600.2	1639.5	1668.4	1676.4	1670.3	1654.7	1619.1	1582.7	1544.8	1431.1
27.5°	1651.3	1670.8	1707.2	1731.4	1729.0	1724.3	1708.2	1662.7	1626.2	1591.7	1463.3
30°	1735.2	1749.4	1787.3	1792.9	1784.4	1783.5	1760.7	1715.3	1681.2	1654.7	1509.3
32.5°	1814.2	1827.0	1857.3	1859.7	1844.6	1846.5	1825.1	1783.5	1764.1	1754.6	1586.5
35°	1898.1	1904.7	1930.7	1927.9	1918.0	1916.5	1908.0	1868.2	1874.4	1891.4	1695.9
37.5°	1968.2	1981.4	1996.1	1998.5	1998.0	2002.7	2008.4	1989.5	2025.0	2078.5	1839.3
40°	2032.6	2043.9	2065.7	2073.3	2091.8	2101.2	2120.6	2121.1	2203.1	2291.1	2016.0
42.5°	2076.1	2095.5	2136.3	2150.0	2195.0	2223.4	2252.3	2283.1	2401.9	2515.1	2224.4
45°	2114.0	2139.6	2207.3	2249.9	2311.0	2345.6	2406.7	2471.1	2642.1	2790.3	2436.0
47.5°	2171.3	2194.1	2271.7	2347.0	2439.4	2479.1	2570.5	2666.7	2890.2	3052.6	2638.7
50°	2250.9	2264.6	2343.7	2466.4	2584.3	2635.4	2756.2	2894.9	3155.4	3311.7	2816.8
52.5°	2352.7	2358.4	2421.4	2584.7	2740.1	2803.5	2963.6	3125.6	3387.5	3536.6	2957.9
55°	2473.0	2463.5	2512.8	2710.2	2918.1	3001.0	3172.9	3359.0	3648.4	3718.5	3060.7
57.5°	2591.9	2577.2	2616.5	2862.7	3137.9	3237.8	3438.1	3599.6	3881.4	3888.5	3132.7
60°	2717.8	2706.9	2753.8	3041.7	3407.3	3525.7	3710.9	3849.2	4106.8	4006.9	3144.0
62.5°	2847.1	2829.6	2896.4	3243.0	3710.9	3818.4	3997.9	4114.4	4328.0	4050.9	3034.6
65°	2972.6	2964.6	3067.8	3482.2	4056.6	4178.8	4353.1	4432.1	4505.1	3984.6	2763.3
67.5°	3106.1	3122.3	3287.1	3801.4	4507.4	4660.9	4848.9	4774.5	4555.7	3670.6	2327.1
70°	3309.8	3320.2	3575.0	4219.5	5088.5	5273.7	5364.6	4896.2	4311.4	3074.4	1749.4
72.5°	3397.4	3443.3	3832.1	4658.5	5748.7	5861.9	5537.9	4624.9	3591.6	2088.4	919.2
73°	3378.0	3432.9	3844.0	4725.3	5800.3	5919.2	5501.0	4485.2	3338.7	1798.6	788.0
75°	3136.0	3203.7	3690.1	4669.4	5699.9	5628.9	4907.1	3822.7	2256.1	817.9	359.0
77.5°	2474.4	2493.8	2923.8	3770.6	4488.5	4356.8	3672.5	2389.2	921.6	304.0	203.6
80°	1241.2	1312.7	1648.0	2160.0	3001.5	2958.4	2318.1	1129.9	384.1	178.5	135.0
82.5°	597.2	647.8	802.7	1053.2	1658.4	1619.1	1147.9	617.5	243.9	104.2	79.6
85°	384.5	422.4	511.0	502.5	681.9	651.2	515.7	467.4	144.4	54.5	55.4
87.5°	253.8	278.0	333.4	266.6	248.2	224.5	227.8	263.3	28.4	20.8	7.6
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°	1473.3	1473.3	1473.3	1473.3	1473.3	1473.3	1473.3	1473.3	1473.3	1473.3	1473.3
2.5°	1457.2	1451.0	1430.7	1410.8	1391.8	1373.8	1362.0	1346.4	1335.9	1338.8	1343.0
5°	1420.7	1407.0	1371.0	1335.9	1302.8	1263.5	1231.8	1206.2	1186.8	1179.7	1178.2
7.5°	1382.4	1359.1	1307.5	1247.4	1191.0	1142.3	1085.9	1058.0	1025.3	1013.9	1010.1
10°	1359.1	1327.9	1255.4	1171.6	1086.8	1005.9	944.8	895.0	850.1	841.5	837.3
12.5°	1352.5	1311.3	1213.8	1105.8	993.1	893.6	803.2	737.8	694.3	684.3	669.6
15°	1348.7	1297.6	1174.9	1039.5	896.5	775.2	680.0	603.8	564.0	537.5	538.0
17.5°	1345.4	1282.0	1131.4	967.0	813.1	673.4	568.3	499.6	463.2	448.9	447.5
20°	1340.7	1263.5	1081.2	890.8	717.9	580.6	485.4	434.3	409.6	397.8	397.3
22.5°	1338.8	1245.5	1031.9	813.1	633.6	509.1	430.5	394.5	378.9	370.8	370.8
25°	1343.5	1232.7	980.3	739.2	558.8	448.0	392.6	368.0	359.0	354.7	353.3
27.5°	1358.2	1227.0	929.1	665.4	490.1	406.3	367.0	350.0	343.3	340.0	340.5
30°	1386.1	1226.5	878.9	592.4	439.0	374.6	346.7	334.8	329.6	327.7	327.2
32.5°	1431.1	1237.0	829.7	532.3	395.9	348.1	327.7	319.2	316.8	315.4	314.9
35°	1507.4	1266.3	780.9	477.4	362.8	324.4	309.7	305.5	302.1	303.6	304.0
37.5°	1610.1	1317.0	734.5	434.3	337.7	306.9	294.6	290.8	288.9	290.3	291.7
40°	1747.9	1389.9	695.7	399.7	319.7	292.2	281.3	278.0	276.1	278.5	278.9
42.5°	1900.0	1474.2	663.5	372.7	305.0	279.9	269.5	265.7	264.3	265.7	266.1
45°	2056.2	1572.3	646.9	353.3	292.7	270.9	260.0	255.7	252.4	251.5	252.9
47.5°	2210.2	1657.5	646.4	341.4	282.7	262.8	251.0	246.3	242.0	239.6	239.2
50°	2335.7	1725.2	657.8	336.2	274.2	253.8	242.0	237.3	231.6	226.8	227.8
52.5°	2430.4	1769.3	663.0	333.9	269.5	244.4	232.5	228.3	221.6	215.5	215.5
55°	2491.5	1779.7	650.2	331.5	265.7	234.4	221.6	217.8	211.2	205.1	205.1
57.5°	2512.3	1747.5	604.3	325.8	261.9	225.9	210.7	207.4	202.2	196.1	195.1
60°	2464.0	1638.6	523.8	308.8	254.3	216.9	198.9	197.5	195.6	190.4	189.9
62.5°	2277.9	1407.5	436.2	286.5	241.5	207.4	188.0	190.4	191.8	189.0	188.5
65°	1968.2	1142.7	372.7	255.7	224.5	194.2	176.2	182.3	186.1	186.1	185.2
67.5°	1596.4	877.5	314.0	229.2	203.2	176.2	162.9	167.6	170.5	169.5	171.9
70°	1134.7	594.3	255.7	198.9	176.2	155.8	145.9	145.9	144.0	143.0	143.0
72.5°	550.3	339.6	207.4	166.2	150.1	133.1	125.0	121.7	117.9	117.4	115.1
73°	459.8	304.5	198.0	160.1	144.0	129.8	120.8	115.6	113.2	111.3	110.8
75°	279.9	231.1	165.3	135.0	122.7	111.8	103.7	99.0	96.6	95.2	94.7
77.5°	184.2	172.4	128.3	103.2	93.8	87.1	83.8	79.1	77.7	75.8	75.8
80°	137.3	131.7	91.9	72.9	67.2	61.6	60.6	59.7	55.9	53.5	52.6
82.5°	88.6	93.8	62.5	48.8	42.6	37.9	38.4	39.8	36.0	32.7	31.7
85°	63.0	67.7	37.9	22.3	18.0	15.6	17.5	15.6	16.1	12.8	10.4
87.5°	10.4	18.0	6.6	2.8	1.4	0.9	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)