

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: P451535

Luminaire Tested: **GALN-SA2B-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451535
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-SA2B-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 8900 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

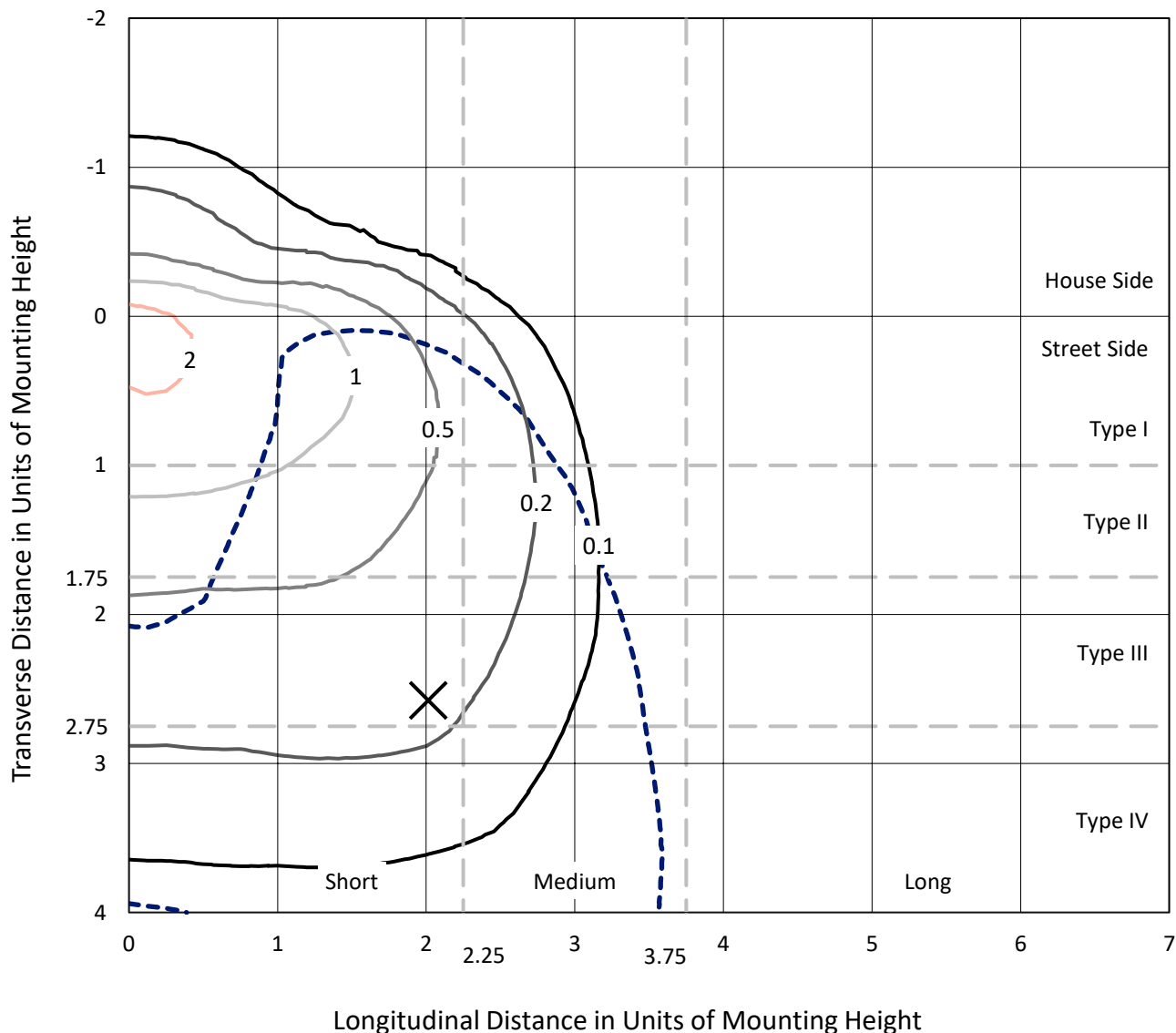
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

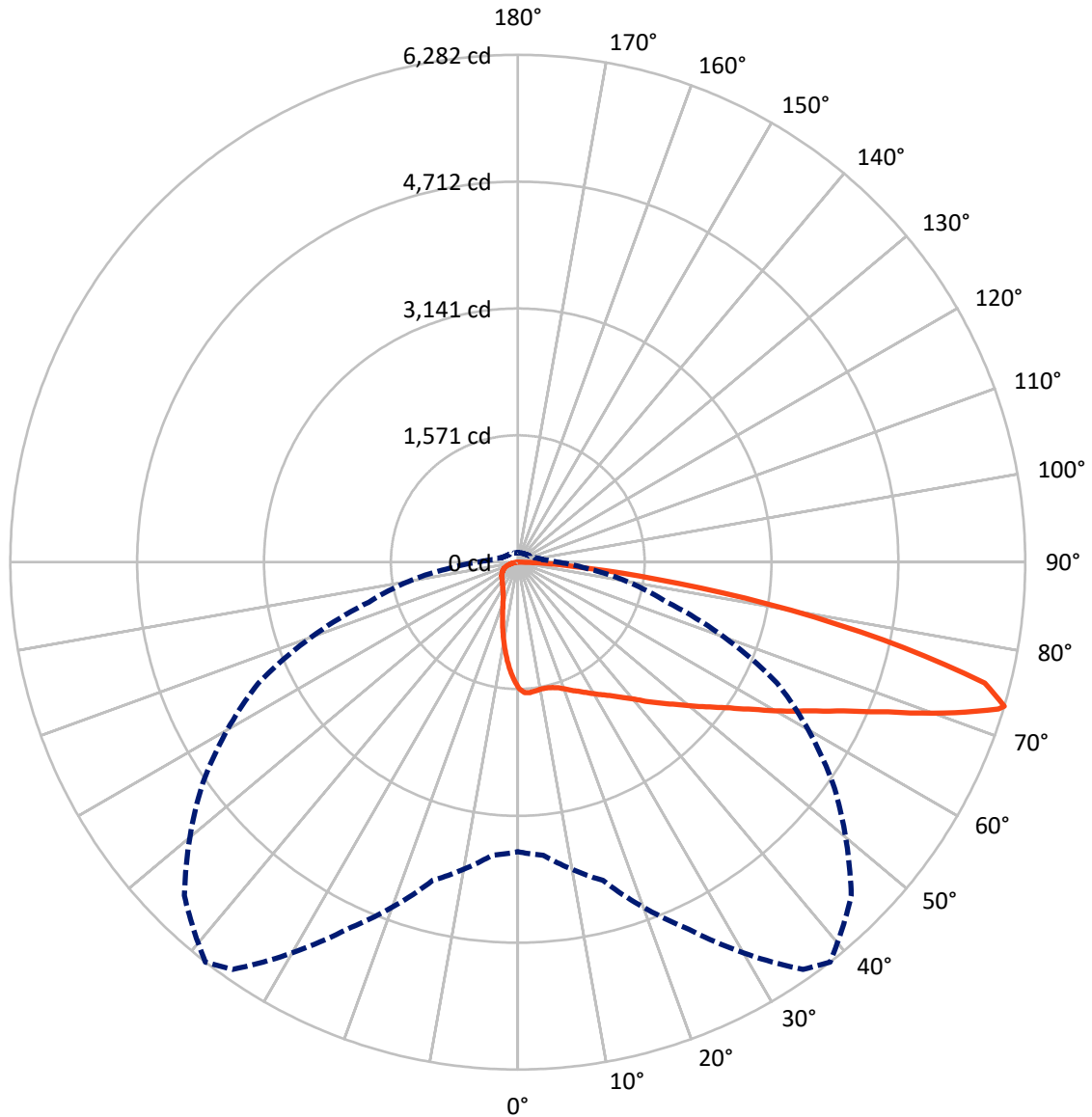
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1196.4	0.0	1196.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	7703.6	0.0	7703.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	8900.0	0.0	8900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	1.5
10°-20°	350.0	3.9
20°-30°	545.0	6.1
30°-40°	799.4	9.0
40°-50°	1185.8	13.3
50°-60°	1680.0	18.9
60°-70°	2131.2	23.9
70°-80°	1774.0	19.9
80°-90°	298.1	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°	8900.0	100.0
0°-180°	8900.0	100.0

Coefficient of Utilization



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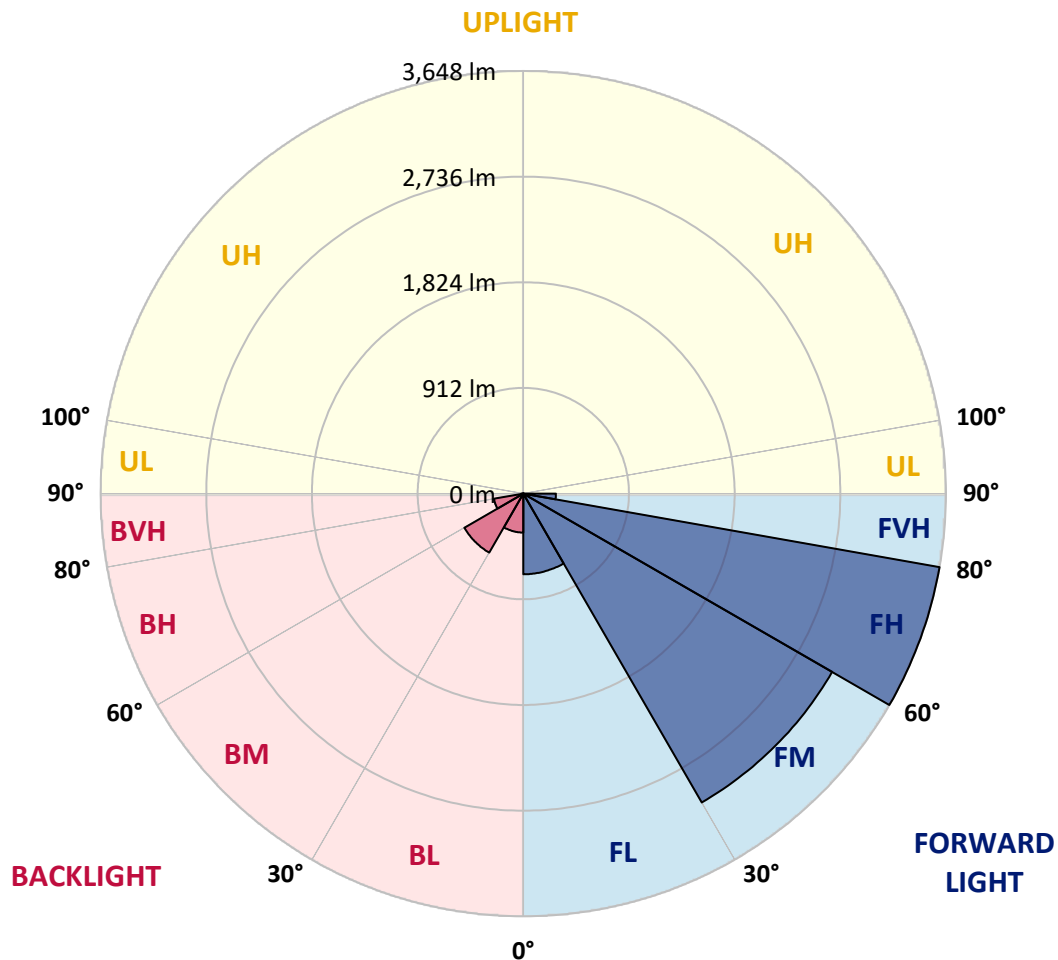
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	695.7	7.8			
FM (30°-60°)	3077.9	34.6			
FH (60°-80°)	3648.1	41.0			G2/5000
FVH (80°-90°)	281.9	3.2			G3/500
BL (0°-30°)	335.7	3.8	B1/500		
BM (30°-60°)	587.4	6.6	B1/1000		
BH (60°-80°)	257.2	2.9	B1/500		G1/500
BVH (80°-90°)	16.2	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°	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6
2.5°	1626.4	1634.4	1630.4	1624.9	1621.4	1617.9	1612.8	1598.3	1586.7	1574.1	1554.5
5°	1638.5	1643.5	1640.0	1632.9	1624.9	1621.4	1611.8	1592.7	1574.1	1553.0	1523.9
7.5°	1631.4	1633.4	1629.4	1620.9	1613.8	1607.3	1596.2	1575.1	1552.5	1526.9	1488.7
10°	1606.3	1613.8	1613.8	1606.8	1599.8	1596.2	1585.2	1565.1	1544.5	1515.3	1470.1
12.5°	1585.7	1593.7	1600.3	1598.3	1597.8	1597.8	1589.2	1574.1	1550.0	1522.4	1468.6
15°	1571.6	1581.2	1595.2	1603.3	1608.3	1609.8	1606.3	1593.2	1568.6	1536.4	1474.6
17.5°	1568.6	1580.2	1605.8	1623.4	1636.5	1636.0	1634.9	1616.9	1589.7	1556.5	1482.2
20°	1582.2	1597.3	1632.9	1660.6	1679.7	1676.2	1670.6	1647.0	1615.3	1578.2	1489.2
22.5°	1622.9	1638.5	1677.7	1707.8	1726.4	1726.4	1709.8	1678.7	1645.0	1603.3	1498.7
25°	1681.2	1698.3	1740.0	1770.6	1779.2	1772.7	1756.1	1718.4	1679.7	1639.5	1518.8
27.5°	1752.6	1773.2	1811.9	1837.5	1835.0	1830.0	1812.9	1764.6	1725.9	1689.2	1553.0
30°	1841.5	1856.6	1896.8	1902.8	1893.8	1892.8	1868.7	1820.4	1784.2	1756.1	1601.8
32.5°	1925.4	1939.0	1971.2	1973.7	1957.6	1959.6	1937.0	1892.8	1872.2	1862.1	1683.7
35°	2014.4	2021.4	2049.1	2046.1	2035.5	2034.0	2025.0	1982.7	1989.3	2007.4	1799.8
37.5°	2088.8	2102.9	2118.4	2121.0	2120.5	2125.5	2131.5	2111.4	2149.1	2205.9	1952.1
40°	2157.1	2169.2	2192.3	2200.4	2220.0	2230.0	2250.6	2251.1	2338.1	2431.6	2139.6
42.5°	2203.4	2224.0	2267.2	2281.8	2329.5	2359.7	2390.4	2423.0	2549.2	2669.3	2360.7
45°	2243.6	2270.7	2342.6	2387.8	2452.7	2489.4	2554.2	2622.6	2804.0	2961.3	2585.4
47.5°	2304.4	2328.5	2411.0	2490.9	2588.9	2631.1	2728.1	2830.1	3067.3	3239.7	2800.5
50°	2388.8	2403.4	2487.4	2617.5	2742.7	2797.0	2925.1	3072.4	3348.8	3514.7	2989.4
52.5°	2496.9	2502.9	2569.8	2743.2	2908.0	2975.4	3145.3	3317.1	3595.1	3753.4	3139.2
55°	2624.6	2614.5	2666.8	2876.4	3097.0	3185.0	3367.4	3564.9	3872.0	3946.4	3248.3
57.5°	2750.7	2735.1	2776.8	3038.2	3330.2	3436.3	3648.9	3820.2	4119.3	4126.8	3324.7
60°	2884.4	2872.8	2922.6	3228.2	3616.2	3741.8	3938.3	4085.1	4358.5	4252.5	3336.7
62.5°	3021.6	3003.0	3073.9	3441.8	3938.3	4052.4	4242.9	4366.6	4593.2	4299.2	3220.6
65°	3154.8	3146.3	3255.8	3695.6	4305.2	4434.9	4619.9	4703.8	4781.2	4228.9	2932.7
67.5°	3296.5	3313.6	3488.5	4034.3	4783.7	4946.6	5146.1	5067.2	4835.0	3895.6	2469.8
70°	3512.7	3523.7	3794.1	4478.1	5400.4	5596.9	5693.4	5196.4	4575.6	3262.9	1856.6
72.5°	3605.6	3654.4	4067.0	4944.0	6101.0	6221.1	5877.4	4908.4	3811.7	2216.5	975.5
73°	3585.0	3643.3	4079.6	5014.9	6155.8	6282.0	5838.2	4760.1	3543.3	1908.9	836.3
75°	3328.2	3400.1	3916.2	4955.6	6049.3	5973.9	5207.9	4057.0	2394.4	868.0	381.0
77.5°	2626.1	2646.7	3103.0	4001.7	4763.6	4623.9	3897.6	2535.6	978.1	322.7	216.1
80°	1317.3	1393.2	1749.0	2292.3	3185.5	3139.7	2460.2	1199.2	407.6	189.5	143.2
82.5°	633.8	687.6	851.9	1117.8	1760.1	1718.4	1218.3	655.4	258.8	110.6	84.4
85°	408.1	448.3	542.3	533.3	723.7	691.1	547.3	496.1	153.3	57.8	58.8
87.5°	269.4	295.0	353.8	283.0	263.4	238.2	241.7	279.4	30.2	22.1	8.0
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°	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6
2.5°	1546.5	1540.0	1518.3	1497.2	1477.1	1458.0	1445.5	1428.9	1417.8	1420.8	1425.4
5°	1507.8	1493.2	1455.0	1417.8	1382.6	1340.9	1307.3	1280.1	1259.5	1252.0	1250.5
7.5°	1467.1	1442.5	1387.7	1323.8	1264.0	1212.3	1152.5	1122.8	1088.1	1076.1	1072.0
10°	1442.5	1409.3	1332.4	1243.4	1153.5	1067.5	1002.7	949.9	902.2	893.1	888.6
12.5°	1435.4	1391.7	1288.2	1173.6	1053.9	948.4	852.4	783.0	736.8	726.3	710.7
15°	1431.4	1377.1	1246.9	1103.2	951.4	822.8	721.7	640.8	598.6	570.4	571.0
17.5°	1427.9	1360.5	1200.7	1026.3	863.0	714.7	603.1	530.2	491.5	476.5	475.0
20°	1422.9	1340.9	1147.4	945.4	761.9	616.2	515.2	460.9	434.7	422.2	421.7
22.5°	1420.8	1321.8	1095.2	863.0	672.5	540.3	456.9	418.7	402.1	393.5	393.5
25°	1425.9	1308.3	1040.4	784.6	593.1	475.5	416.7	390.5	381.0	376.4	374.9
27.5°	1441.4	1302.2	986.1	706.1	520.2	431.2	389.5	371.4	364.4	360.9	361.4
30°	1471.1	1301.7	932.8	628.7	465.9	397.6	367.9	355.3	349.8	347.8	347.3
32.5°	1518.8	1312.8	880.5	564.9	420.2	369.4	347.8	338.8	336.2	334.7	334.2
35°	1599.8	1343.9	828.8	506.6	385.0	344.3	328.7	324.2	320.7	322.2	322.7
37.5°	1708.8	1397.7	779.5	460.9	358.4	325.7	312.6	308.6	306.6	308.1	309.6
40°	1855.1	1475.1	738.3	424.2	339.3	310.1	298.5	295.0	293.0	295.5	296.0
42.5°	2016.4	1564.6	704.1	395.5	323.7	297.0	286.0	282.0	280.4	282.0	282.5
45°	2182.3	1668.6	686.5	374.9	310.6	287.5	275.9	271.4	267.9	266.9	268.4
47.5°	2345.6	1759.1	686.0	362.4	300.1	278.9	266.4	261.4	256.8	254.3	253.8
50°	2478.8	1831.0	698.1	356.8	291.0	269.4	256.8	251.8	245.8	240.7	241.7
52.5°	2579.3	1877.7	703.6	354.3	286.0	259.3	246.8	242.3	235.2	228.7	228.7
55°	2644.2	1888.8	690.1	351.8	282.0	248.8	235.2	231.2	224.2	217.6	217.6
57.5°	2666.3	1854.6	641.3	345.8	277.9	239.7	223.7	220.1	214.6	208.1	207.1
60°	2615.0	1739.0	555.9	327.7	269.9	230.2	211.1	209.6	207.6	202.0	201.5
62.5°	2417.5	1493.7	462.9	304.1	256.3	220.1	199.5	202.0	203.6	200.5	200.0
65°	2088.8	1212.8	395.5	271.4	238.2	206.1	187.0	193.5	197.5	197.5	196.5
67.5°	1694.3	931.3	333.2	243.3	215.6	187.0	172.9	177.9	180.9	179.9	182.4
70°	1204.2	630.8	271.4	211.1	187.0	165.4	154.8	154.8	152.8	151.8	151.8
72.5°	584.0	360.4	220.1	176.4	159.3	141.2	132.7	129.2	125.1	124.6	122.1
73°	488.0	323.2	210.1	169.9	152.8	137.7	128.2	122.6	120.1	118.1	117.6
75°	297.0	245.3	175.4	143.2	130.2	118.6	110.1	105.0	102.5	101.0	100.5
77.5°	195.5	182.9	136.2	109.6	99.5	92.5	89.0	83.9	82.4	80.4	80.4
80°	145.8	139.7	97.5	77.4	71.4	65.3	64.3	63.3	59.3	56.8	55.8
82.5°	94.0	99.5	66.3	51.8	45.2	40.2	40.7	42.2	38.2	34.7	33.7
85°	66.8	71.9	40.2	23.6	19.1	16.6	18.6	16.6	17.1	13.6	11.1
87.5°	11.1	19.1	7.0	3.0	1.5	1.0	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)