

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: P452733

Luminaire Tested: **GALN-SA3D-722-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-722-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17301 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

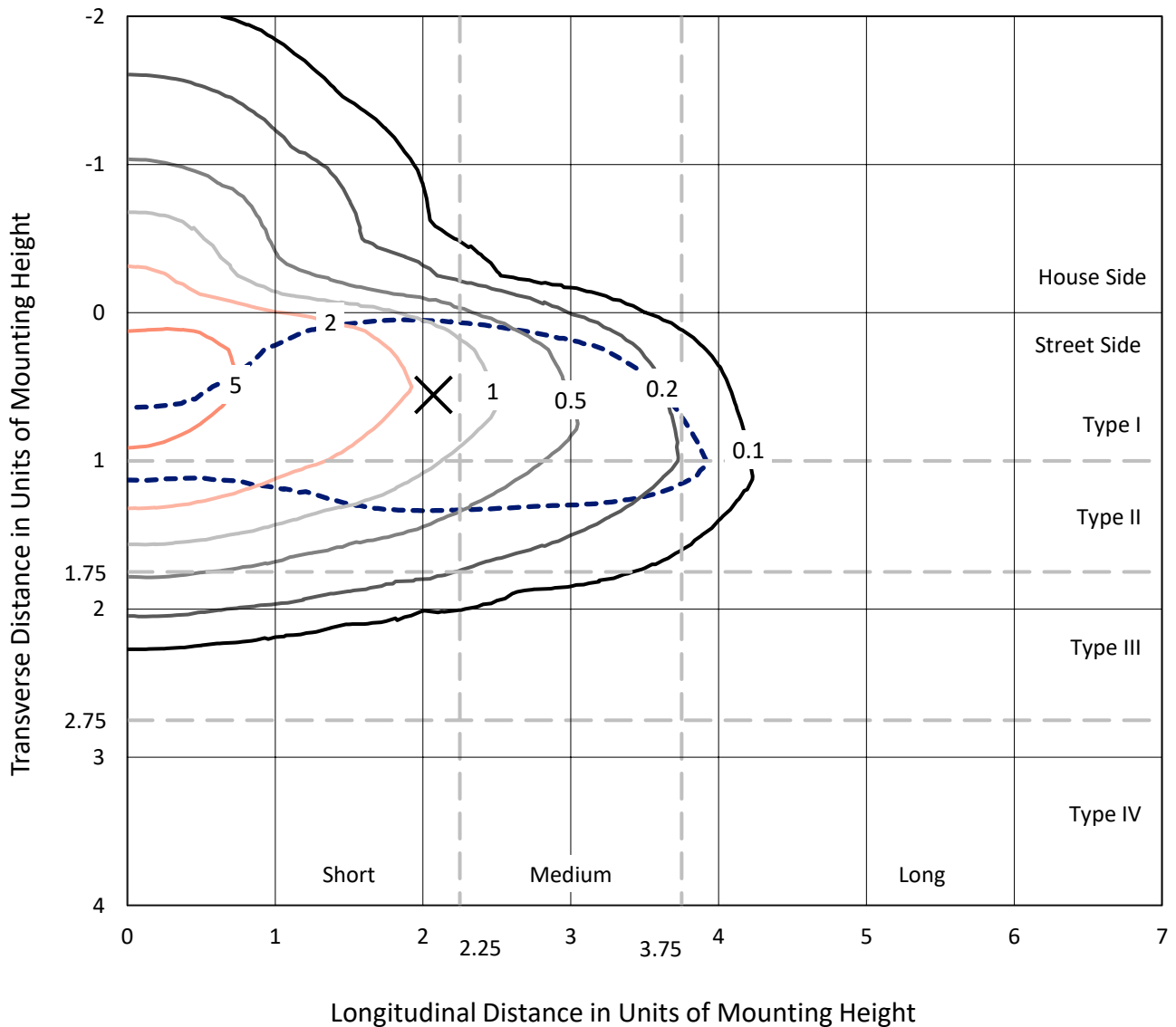
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

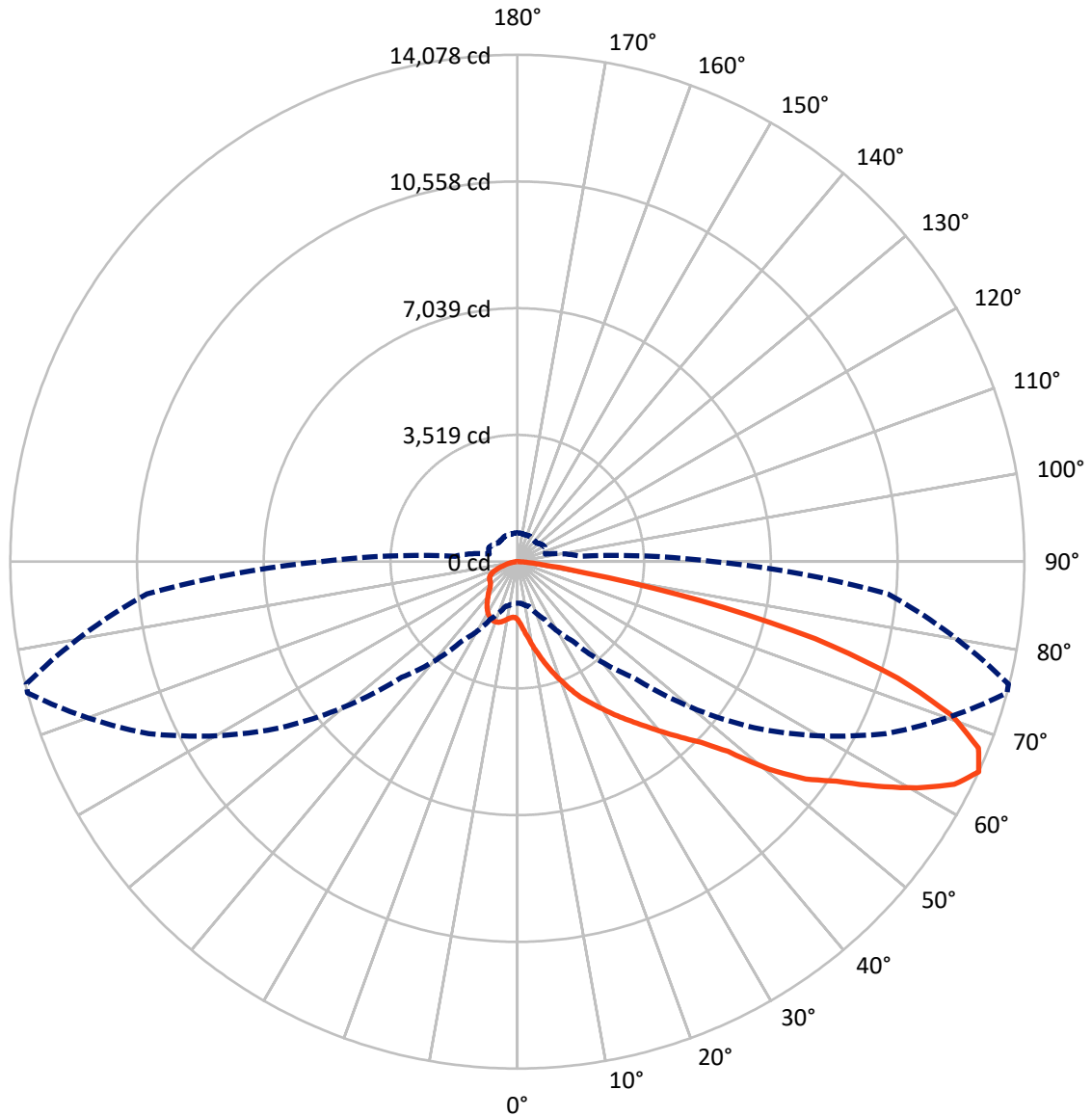
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2908.5	0.0	2908.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	14392.5	0.0	14392.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	17301.0	0.0	17301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.3	1.1
10°-20°	765.0	4.4
20°-30°	1477.7	8.5
30°-40°	2400.2	13.9
40°-50°	3301.7	19.1
50°-60°	3898.2	22.5
60°-70°	3415.4	19.7
70°-80°	1630.6	9.4
80°-90°	217.0	1.3
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°	17301.0	100.0
0°-180°	17301.0	100.0

Coefficient of Utilization



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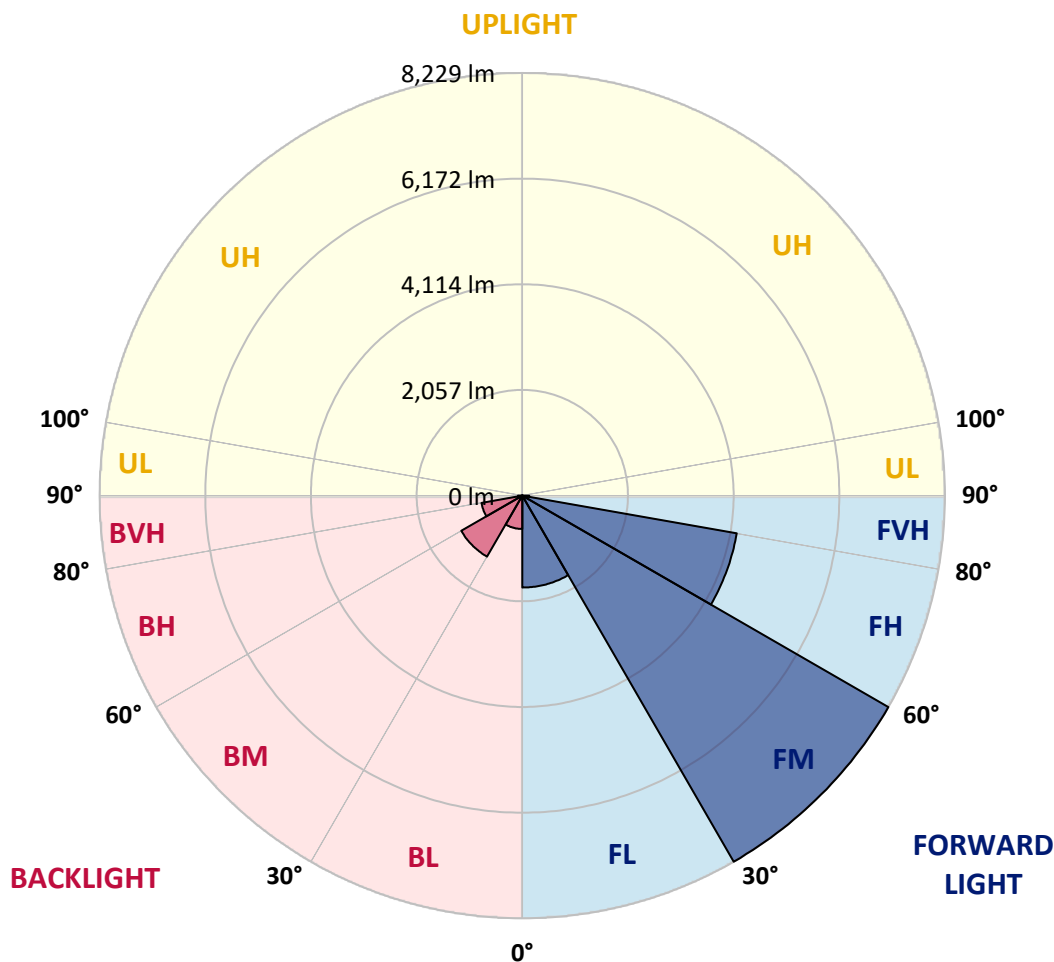
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1788.6	10.3			
FM (30°-60°)	8228.7	47.6			
FH (60°-80°)	4239.5	24.5			G2/5000
FVH (80°-90°)	135.6	0.8			G2/225
BL (0°-30°)	649.3	3.8	B2/1000		
BM (30°-60°)	1371.3	7.9	B2/2500		
BH (60°-80°)	806.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	81.4	0.5			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5
2.5°	2135.8	2121.7	2106.7	2065.4	2021.3	1971.6	1900.3	1831.8	1740.7	1737.9	1670.4
5°	2727.9	2718.5	2651.9	2613.4	2511.2	2375.1	2259.7	2080.4	1914.3	1894.6	1763.3
7.5°	3272.2	3235.6	3210.3	3140.8	3039.5	2864.9	2641.6	2399.5	2121.7	2095.5	1877.7
10°	3682.3	3678.5	3665.4	3605.3	3529.3	3355.7	3108.0	2760.8	2384.5	2332.9	2016.6
12.5°	3989.1	3992.0	3990.1	3989.1	3934.7	3787.4	3519.0	3153.0	2650.0	2613.4	2177.1
15°	4190.9	4219.1	4230.3	4277.2	4281.9	4183.4	3952.5	3532.1	2949.4	2895.0	2349.8
17.5°	4324.2	4338.2	4390.8	4470.5	4535.3	4517.5	4312.0	3883.1	3255.3	3164.3	2529.0
20°	4451.8	4476.2	4516.5	4625.4	4739.9	4792.4	4647.9	4242.5	3558.4	3500.2	2727.0
22.5°	4717.3	4752.1	4766.1	4821.5	4919.1	5012.0	4946.3	4586.9	3890.6	3811.8	2937.2
25°	5166.8	5203.4	5164.0	5150.9	5182.8	5228.8	5214.7	4911.6	4204.0	4091.4	3136.1
27.5°	5752.4	5757.1	5680.1	5606.9	5528.1	5504.7	5461.5	5199.7	4476.2	4382.3	3336.0
30°	6381.1	6358.6	6231.0	6098.7	5965.4	5834.0	5710.2	5477.4	4779.3	4671.4	3532.1
32.5°	6964.8	6952.6	6810.9	6605.4	6380.2	6256.3	6005.8	5758.0	5104.0	4999.8	3733.9
35°	7402.1	7419.9	7264.2	7039.9	6794.0	6684.2	6368.0	6052.7	5439.9	5326.4	3953.5
37.5°	7712.7	7703.3	7565.4	7371.1	7155.3	7059.6	6791.2	6374.6	5801.2	5692.3	4193.7
40°	7823.5	7817.8	7715.5	7573.8	7436.8	7403.0	7234.1	6721.8	6215.0	6087.4	4482.7
42.5°	7753.1	7765.3	7697.7	7659.2	7633.9	7658.3	7674.2	7176.9	6666.4	6549.1	4796.2
45°	7537.2	7530.7	7521.3	7584.2	7726.8	7887.3	8109.7	7606.7	7157.2	7063.3	5216.6
47.5°	7151.6	7198.5	7221.9	7395.5	7707.1	8087.1	8610.8	8182.9	7869.4	7787.8	5857.5
50°	6612.0	6649.5	6788.4	7097.1	7561.6	8162.2	9100.6	9125.0	9057.4	8904.5	6553.8
52.5°	5769.3	5827.5	6113.7	6679.5	7263.2	8131.2	9397.2	9933.0	10022.1	9907.6	7239.8
55°	4826.2	4907.8	5210.0	5952.3	6852.2	7962.3	9601.7	10401.2	10756.9	10650.9	7900.4
57.5°	3902.8	3989.1	4299.8	5018.6	6135.3	7588.9	9735.9	10923.0	11757.2	11619.3	8722.4
60°	2925.0	3015.1	3281.6	4022.0	5114.3	6858.8	9644.9	11375.3	12756.6	12697.5	9545.4
62.5°	1887.1	1986.6	2218.4	2831.2	3931.0	5861.3	9157.9	11624.9	13621.8	13550.5	10146.0
65°	1149.5	1160.8	1288.4	1757.6	2690.4	4538.1	8044.0	11293.7	14077.9	14056.3	10329.0
67.5°	743.2	761.0	819.2	1052.9	1613.1	3152.1	6431.8	10200.4	13811.4	13803.9	9950.8
70°	627.8	633.4	659.7	710.4	937.5	1911.5	4516.5	8457.8	12798.9	12798.9	9041.5
72.5°	561.2	568.7	578.1	594.0	669.1	1082.9	2695.1	6583.8	11050.6	11123.8	7695.8
75°	509.6	507.7	513.3	516.1	570.5	707.6	1393.5	4869.4	8548.8	8402.4	5573.2
77.5°	436.4	439.2	436.4	448.6	503.9	538.6	707.6	3267.5	5180.9	4991.4	2797.4
80°	358.5	363.2	367.9	375.4	430.7	409.1	425.1	1489.2	1916.2	1875.9	864.3
82.5°	269.3	275.9	283.4	301.2	338.8	270.3	268.4	636.2	691.6	633.4	318.1
85°	108.9	128.6	194.2	212.1	213.0	148.3	165.2	265.6	282.5	275.9	124.8
87.5°	25.3	30.0	62.9	94.8	87.3	55.4	61.0	86.3	98.5	91.0	42.2
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°	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5
2.5°	1639.4	1606.5	1550.2	1507.1	1476.1	1448.9	1432.0	1421.7	1417.9	1417.0	1417.9
5°	1694.8	1636.6	1547.4	1491.1	1460.2	1442.3	1432.0	1431.1	1432.0	1432.9	1430.1
7.5°	1770.8	1687.2	1570.9	1518.3	1494.9	1481.7	1477.0	1475.2	1476.1	1475.2	1475.2
10°	1872.1	1757.6	1616.9	1562.4	1542.7	1527.7	1520.2	1515.5	1511.8	1508.0	1506.1
12.5°	1983.8	1835.5	1666.6	1614.1	1585.9	1562.4	1545.5	1533.3	1524.9	1516.5	1514.6
15°	2108.6	1918.1	1722.0	1648.8	1608.4	1573.7	1544.6	1524.9	1509.9	1497.7	1496.8
17.5°	2227.8	1996.0	1759.5	1664.7	1605.6	1556.8	1518.3	1491.1	1472.4	1456.4	1454.5
20°	2355.4	2070.1	1776.4	1654.4	1577.5	1518.3	1467.7	1434.8	1413.2	1395.4	1392.6
22.5°	2483.9	2133.0	1774.5	1621.6	1528.7	1459.2	1405.7	1371.0	1345.7	1327.8	1321.3
25°	2606.9	2183.7	1751.1	1569.0	1461.1	1388.8	1334.4	1302.5	1280.0	1258.4	1258.4
27.5°	2717.6	2213.7	1707.0	1505.2	1391.6	1315.6	1272.5	1243.4	1222.7	1208.7	1200.2
30°	2826.5	2227.8	1646.9	1424.5	1318.5	1253.7	1219.0	1202.1	1183.3	1167.4	1165.5
32.5°	2924.1	2224.9	1571.8	1345.7	1249.0	1203.0	1189.0	1175.8	1156.1	1133.6	1128.0
35°	3018.8	2206.2	1482.7	1259.3	1190.8	1173.0	1176.8	1158.0	1122.3	1094.2	1089.5
37.5°	3122.1	2172.4	1385.1	1189.0	1142.0	1158.9	1168.3	1127.0	1068.8	1024.7	1014.4
40°	3241.2	2133.9	1283.7	1118.6	1103.6	1145.8	1145.8	1069.8	990.0	962.8	955.3
42.5°	3381.1	2102.0	1199.3	1059.5	1071.7	1113.9	1109.2	993.8	960.9	946.8	943.1
45°	3602.5	2090.8	1112.0	1007.8	1045.4	1076.3	1037.9	967.5	948.7	937.5	933.7
47.5°	3952.5	2103.9	1035.1	969.4	1015.4	1038.8	958.1	949.7	936.5	920.6	918.7
50°	4277.2	2091.7	980.6	947.8	989.1	993.8	925.3	928.1	920.6	902.7	899.0
52.5°	4542.8	2053.2	945.9	936.5	966.6	914.9	894.3	904.6	901.8	879.3	875.5
55°	4834.6	2029.8	929.0	936.5	951.5	846.4	865.2	880.2	876.5	860.5	859.6
57.5°	5188.4	2034.5	916.8	939.3	936.5	811.7	836.1	853.9	853.0	848.3	848.3
60°	5550.6	2036.3	898.1	938.4	918.7	784.5	806.1	831.4	833.3	836.1	836.1
62.5°	5670.8	1954.7	861.5	921.5	879.3	758.2	777.9	812.7	810.8	818.3	819.2
65°	5446.5	1728.5	807.0	883.0	828.6	739.5	756.4	788.3	777.9	797.6	801.4
67.5°	4957.6	1430.1	722.6	813.6	772.3	719.8	742.3	754.5	735.7	774.2	775.1
70°	4284.7	1116.7	615.6	715.1	708.5	699.1	731.0	712.2	686.0	732.9	723.5
72.5°	3582.8	853.0	491.7	584.6	623.1	668.1	711.3	657.8	621.2	635.3	618.4
75°	2691.3	630.6	395.1	457.9	518.9	624.0	693.5	592.1	535.8	522.7	518.9
77.5°	1371.9	412.0	295.6	342.5	389.4	564.0	669.1	515.2	443.9	423.2	413.8
80°	489.8	256.2	208.3	236.5	262.8	485.2	584.6	426.0	344.4	340.6	344.4
82.5°	227.1	165.2	139.8	154.8	155.8	323.7	445.7	318.1	261.8	397.9	335.9
85°	97.6	82.6	78.8	76.9	71.3	144.5	250.6	170.8	266.5	119.2	109.8
87.5°	29.1	32.8	29.1	21.6	16.0	16.0	25.3	9.4	6.6	4.7	4.7
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)