

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: P451892

Luminaire Tested: **GALN-SA2D-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451892
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-SA2D-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 15854 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

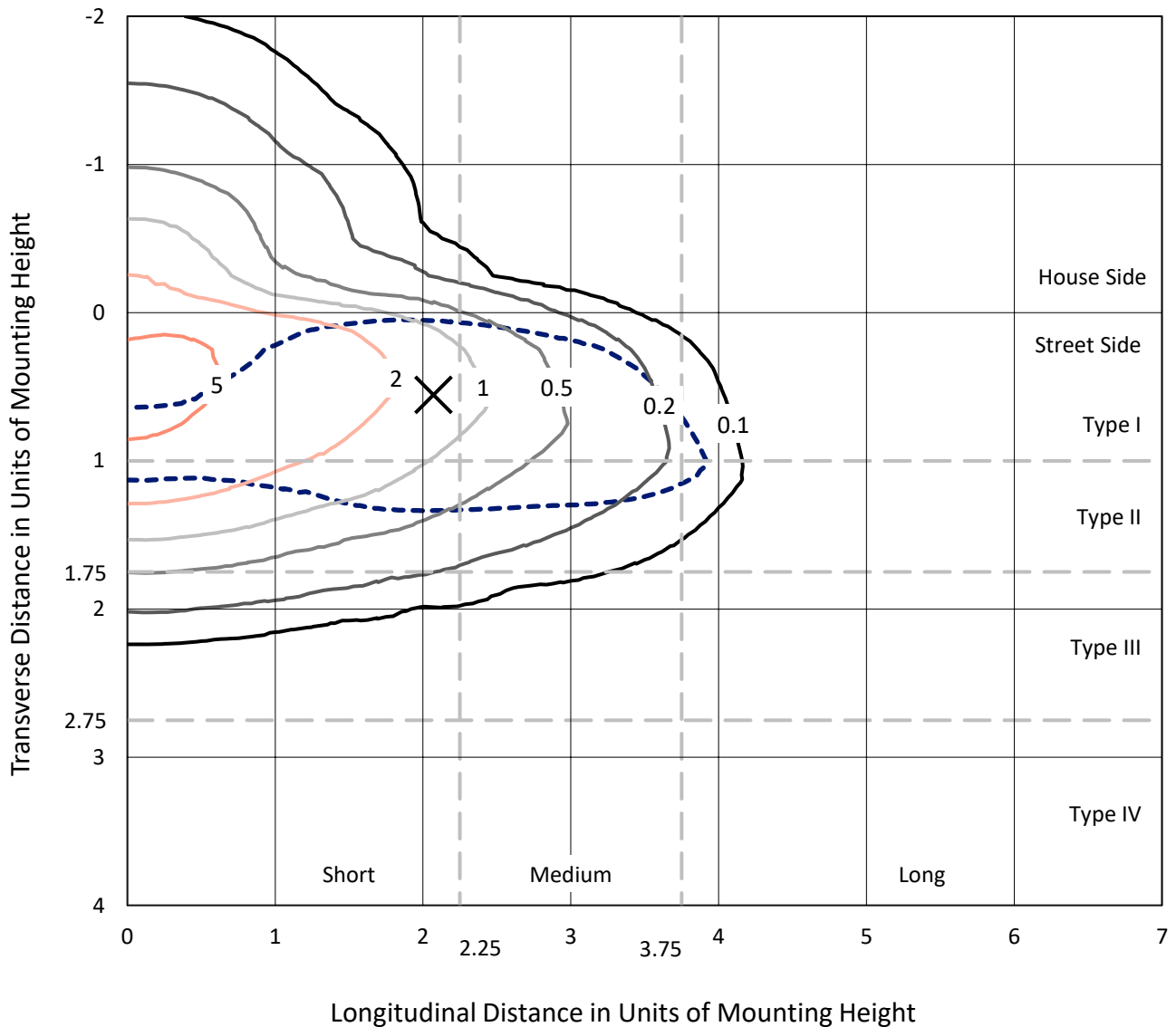
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

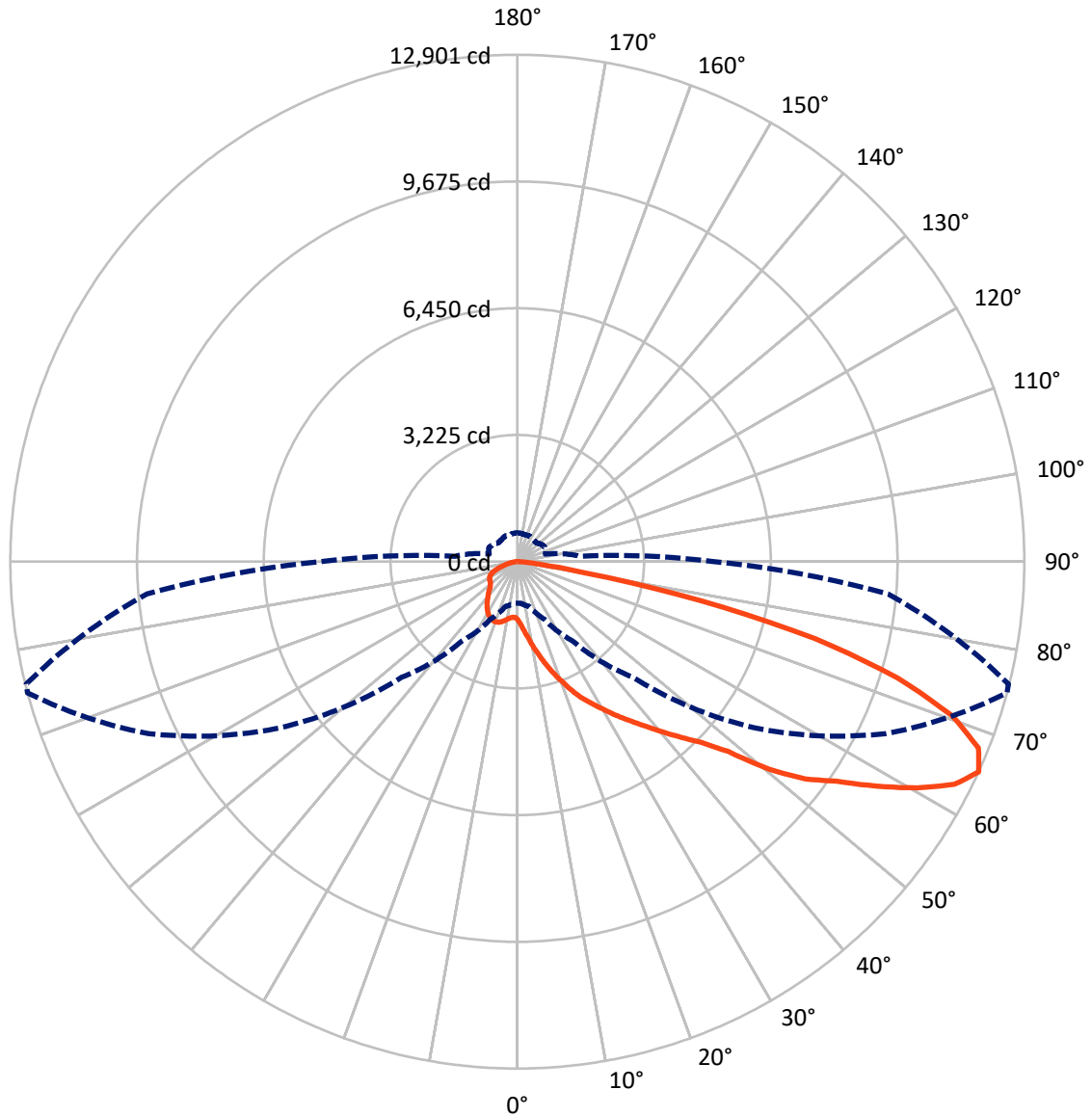
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2665.3	0.0	2665.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	13188.7	0.0	13188.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	15854.0	0.0	15854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	1.1
10°-20°	701.0	4.4
20°-30°	1354.1	8.5
30°-40°	2199.5	13.9
40°-50°	3025.6	19.1
50°-60°	3572.1	22.5
60°-70°	3129.8	19.7
70°-80°	1494.2	9.4
80°-90°	198.8	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°	15854.0	100.0
0°-180°	15854.0	100.0

Coefficient of Utilization



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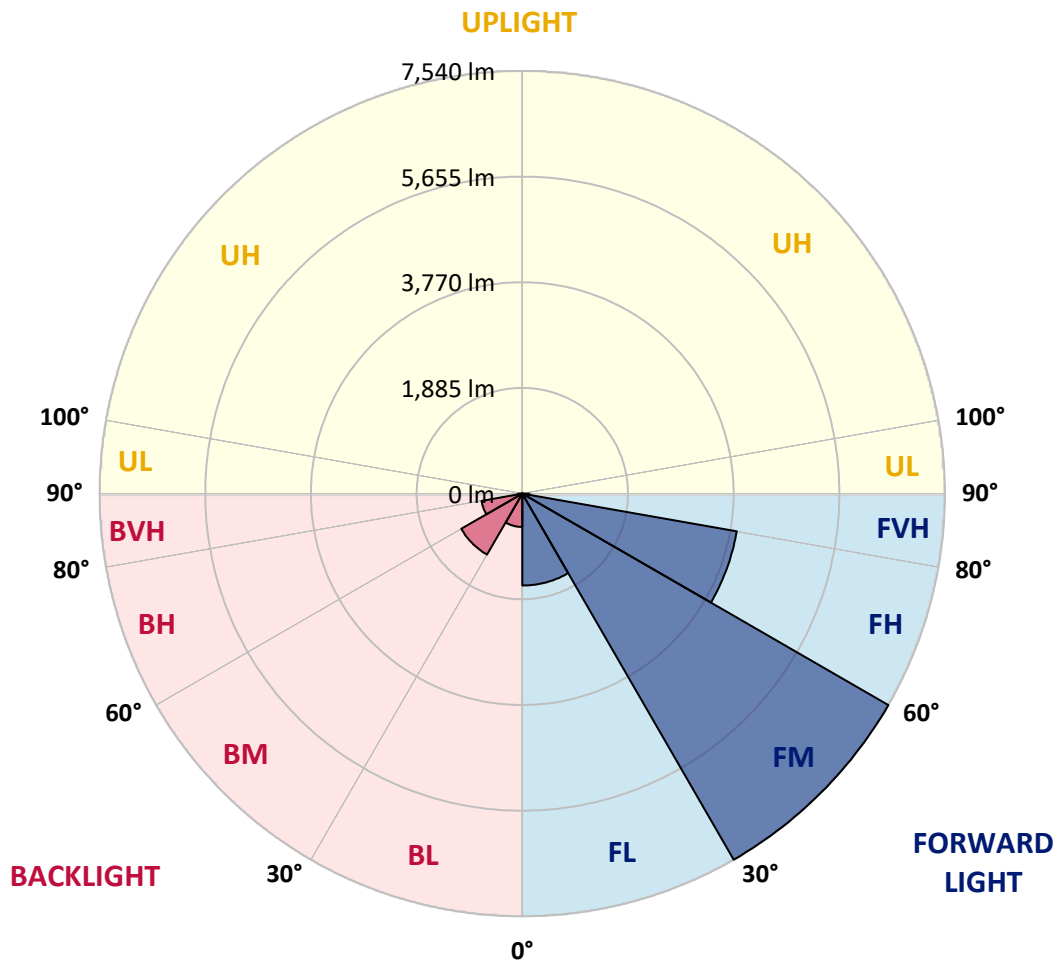
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1639.0	10.3			
FM (30°-60°)	7540.5	47.6			
FH (60°-80°)	3884.9	24.5			G2/5000
FVH (80°-90°)	124.2	0.8			G2/225
BL (0°-30°)	595.0	3.8	B2/1000		
BM (30°-60°)	1256.7	7.9	B2/2500		
BH (60°-80°)	739.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	74.6	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°	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0
2.5°	1957.2	1944.3	1930.5	1892.7	1852.3	1806.7	1741.3	1678.6	1595.1	1592.6	1530.7
5°	2499.8	2491.2	2430.1	2394.9	2301.1	2176.4	2070.7	1906.4	1754.2	1736.2	1615.8
7.5°	2998.5	2965.0	2941.8	2878.1	2785.3	2625.3	2420.7	2198.8	1944.3	1920.2	1720.7
10°	3374.3	3370.9	3358.8	3303.8	3234.1	3075.1	2848.0	2529.9	2185.0	2137.8	1848.0
12.5°	3655.5	3658.1	3656.4	3655.5	3605.6	3470.6	3224.7	2889.3	2428.4	2394.9	1995.0
15°	3840.4	3866.2	3876.5	3919.5	3923.8	3833.5	3622.0	3236.7	2702.7	2652.8	2153.2
17.5°	3962.5	3975.4	4023.5	4096.6	4156.0	4139.6	3951.3	3558.3	2983.1	2899.6	2317.5
20°	4079.4	4101.8	4138.8	4238.5	4343.4	4391.6	4259.2	3887.7	3260.8	3207.5	2498.9
22.5°	4322.8	4354.6	4367.5	4418.3	4507.7	4592.8	4532.6	4203.3	3565.2	3493.0	2691.5
25°	4734.7	4768.2	4732.1	4720.1	4749.3	4791.5	4778.6	4500.8	3852.4	3749.2	2873.8
27.5°	5271.3	5275.6	5205.1	5138.0	5065.8	5044.3	5004.7	4764.8	4101.8	4015.8	3057.0
30°	5847.4	5826.8	5709.8	5588.6	5466.5	5346.1	5232.6	5019.3	4379.6	4280.7	3236.7
32.5°	6382.3	6371.1	6241.3	6053.0	5846.6	5733.1	5503.5	5276.4	4677.1	4581.6	3421.6
35°	6783.0	6799.4	6656.6	6451.1	6225.8	6125.2	5835.4	5546.5	4984.9	4880.9	3622.8
37.5°	7067.7	7059.1	6932.6	6754.6	6556.9	6469.2	6223.2	5841.4	5316.0	5216.3	3843.0
40°	7169.1	7164.0	7070.2	6940.4	6814.8	6783.9	6629.1	6159.6	5695.2	5578.3	4107.8
42.5°	7104.6	7115.8	7053.9	7018.6	6995.4	7017.8	7032.4	6576.6	6108.8	6001.4	4395.0
45°	6906.8	6900.8	6892.2	6949.8	7080.6	7227.6	7431.4	6970.5	6558.6	6472.6	4780.3
47.5°	6553.4	6596.4	6617.9	6777.0	7062.5	7410.8	7890.6	7498.5	7211.3	7136.4	5367.6
50°	6059.0	6093.4	6220.6	6503.5	6929.2	7479.6	8339.5	8361.8	8299.9	8159.7	6005.7
52.5°	5286.8	5340.1	5602.4	6120.9	6655.8	7451.2	8611.2	9102.2	9183.9	9079.0	6634.3
55°	4422.6	4497.4	4774.3	5454.4	6279.1	7296.4	8798.7	9531.3	9857.2	9760.1	7239.6
57.5°	3576.4	3655.5	3940.1	4598.8	5622.1	6954.1	8921.6	10009.4	10773.9	10647.5	7992.9
60°	2680.4	2762.9	3007.1	3685.6	4686.5	6285.1	8838.2	10423.9	11689.7	11635.5	8747.1
62.5°	1729.3	1820.4	2032.8	2594.4	3602.2	5371.0	8391.9	10652.6	12482.5	12417.2	9297.4
65°	1053.4	1063.7	1180.7	1610.6	2465.4	4158.6	7371.2	10349.1	12900.5	12880.7	9465.1
67.5°	681.1	697.4	750.7	964.8	1478.2	2888.5	5893.9	9347.3	12656.2	12649.4	9118.6
70°	575.3	580.4	604.5	651.0	859.1	1751.6	4138.8	7750.4	11728.4	11728.4	8285.3
72.5°	514.2	521.1	529.7	544.3	613.1	992.3	2469.7	6033.2	10126.4	10193.4	7052.2
75°	466.9	465.2	470.4	473.0	522.8	648.4	1277.0	4462.1	7833.8	7699.7	5107.0
77.5°	399.9	402.4	399.9	411.0	461.8	493.6	648.4	2994.2	4747.6	4573.9	2563.4
80°	328.5	332.8	337.1	344.0	394.7	374.9	389.5	1364.7	1755.9	1719.0	792.0
82.5°	246.8	252.8	259.7	276.0	310.4	247.7	245.9	583.0	633.8	580.4	291.5
85°	99.8	117.8	178.0	194.3	195.2	135.9	151.3	243.4	258.8	252.8	114.4
87.5°	23.2	27.5	57.6	86.9	80.0	50.7	55.9	79.1	90.3	83.4	38.7
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°	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.0
2.5°	1502.3	1472.2	1420.6	1381.0	1352.6	1327.7	1312.2	1302.8	1299.3	1298.5	1299.3
5°	1553.0	1499.7	1418.0	1366.4	1338.0	1321.7	1312.2	1311.4	1312.2	1313.1	1310.5
7.5°	1622.7	1546.1	1439.5	1391.3	1369.8	1357.8	1353.5	1351.8	1352.6	1351.8	1351.8
10°	1715.5	1610.6	1481.6	1431.8	1413.7	1399.9	1393.1	1388.8	1385.3	1381.9	1380.2
12.5°	1817.9	1682.0	1527.2	1479.1	1453.3	1431.8	1416.3	1405.1	1397.4	1389.6	1387.9
15°	1932.2	1757.7	1577.9	1510.9	1473.9	1442.1	1415.4	1397.4	1383.6	1372.4	1371.6
17.5°	2041.4	1829.0	1612.3	1525.5	1471.3	1426.6	1391.3	1366.4	1349.2	1334.6	1332.9
20°	2158.4	1897.0	1627.8	1516.0	1445.5	1391.3	1344.9	1314.8	1295.0	1278.7	1276.1
22.5°	2276.2	1954.6	1626.1	1485.9	1400.8	1337.2	1288.2	1256.3	1233.1	1216.8	1210.8
25°	2388.8	2001.0	1604.6	1437.8	1338.9	1272.7	1222.8	1193.6	1172.9	1153.1	1153.1
27.5°	2490.3	2028.5	1564.2	1379.3	1275.3	1205.6	1166.0	1139.4	1120.5	1107.6	1099.8
30°	2590.1	2041.4	1509.2	1305.4	1208.2	1148.8	1117.0	1101.6	1084.4	1069.7	1068.0
32.5°	2679.5	2038.9	1440.4	1233.1	1144.5	1102.4	1089.5	1077.5	1059.4	1038.8	1033.6
35°	2766.4	2021.7	1358.7	1154.0	1091.2	1074.9	1078.3	1061.1	1028.5	1002.7	998.4
37.5°	2860.9	1990.7	1269.2	1089.5	1046.5	1062.0	1070.6	1032.8	979.4	939.0	929.6
40°	2970.2	1955.4	1176.4	1025.0	1011.3	1050.0	1050.0	980.3	907.2	882.3	875.4
42.5°	3098.3	1926.2	1099.0	970.8	982.0	1020.7	1016.4	910.7	880.6	867.7	864.2
45°	3301.2	1915.9	1019.0	923.6	957.9	986.3	951.1	886.6	869.4	859.1	855.6
47.5°	3622.0	1927.9	948.5	888.3	930.4	951.9	878.0	870.2	858.2	843.6	841.9
50°	3919.5	1916.8	898.6	868.5	906.4	910.7	847.9	850.5	843.6	827.2	823.8
52.5°	4162.9	1881.5	866.8	858.2	885.7	838.4	819.5	829.0	826.4	805.7	802.3
55°	4430.3	1860.0	851.3	858.2	872.0	775.6	792.8	806.6	803.2	788.5	787.7
57.5°	4754.5	1864.3	840.1	860.8	858.2	743.8	766.2	782.5	781.7	777.4	777.4
60°	5086.4	1866.0	822.9	859.9	841.9	718.9	738.7	761.9	763.6	766.2	766.2
62.5°	5196.5	1791.2	789.4	844.4	805.7	694.8	712.9	744.7	743.0	749.8	750.7
65°	4991.0	1584.0	739.5	809.2	759.3	677.6	693.1	722.3	712.9	730.9	734.4
67.5°	4542.9	1310.5	662.1	745.5	707.7	659.6	680.2	691.4	674.2	709.4	710.3
70°	3926.4	1023.3	564.1	655.3	649.2	640.6	669.9	652.7	628.6	671.6	663.0
72.5°	3283.2	781.7	450.6	535.7	571.0	612.3	651.8	602.8	569.3	582.2	566.7
75°	2466.2	577.9	362.0	419.6	475.5	571.8	635.5	542.6	491.0	479.0	475.5
77.5°	1257.2	377.5	270.9	313.9	356.9	516.8	613.1	472.1	406.7	387.8	379.2
80°	448.9	234.8	190.9	216.7	240.8	444.6	535.7	390.4	315.6	312.1	315.6
82.5°	208.1	151.3	128.1	141.9	142.7	296.7	408.5	291.5	239.9	364.6	307.9
85°	89.4	75.7	72.2	70.5	65.4	132.4	229.6	156.5	244.2	109.2	100.6
87.5°	26.7	30.1	26.7	19.8	14.6	14.6	23.2	8.6	6.0	4.3	4.3
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)