

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: P451631

Luminaire Tested: **GALN-SA2C-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451631
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-SA2C-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13122 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

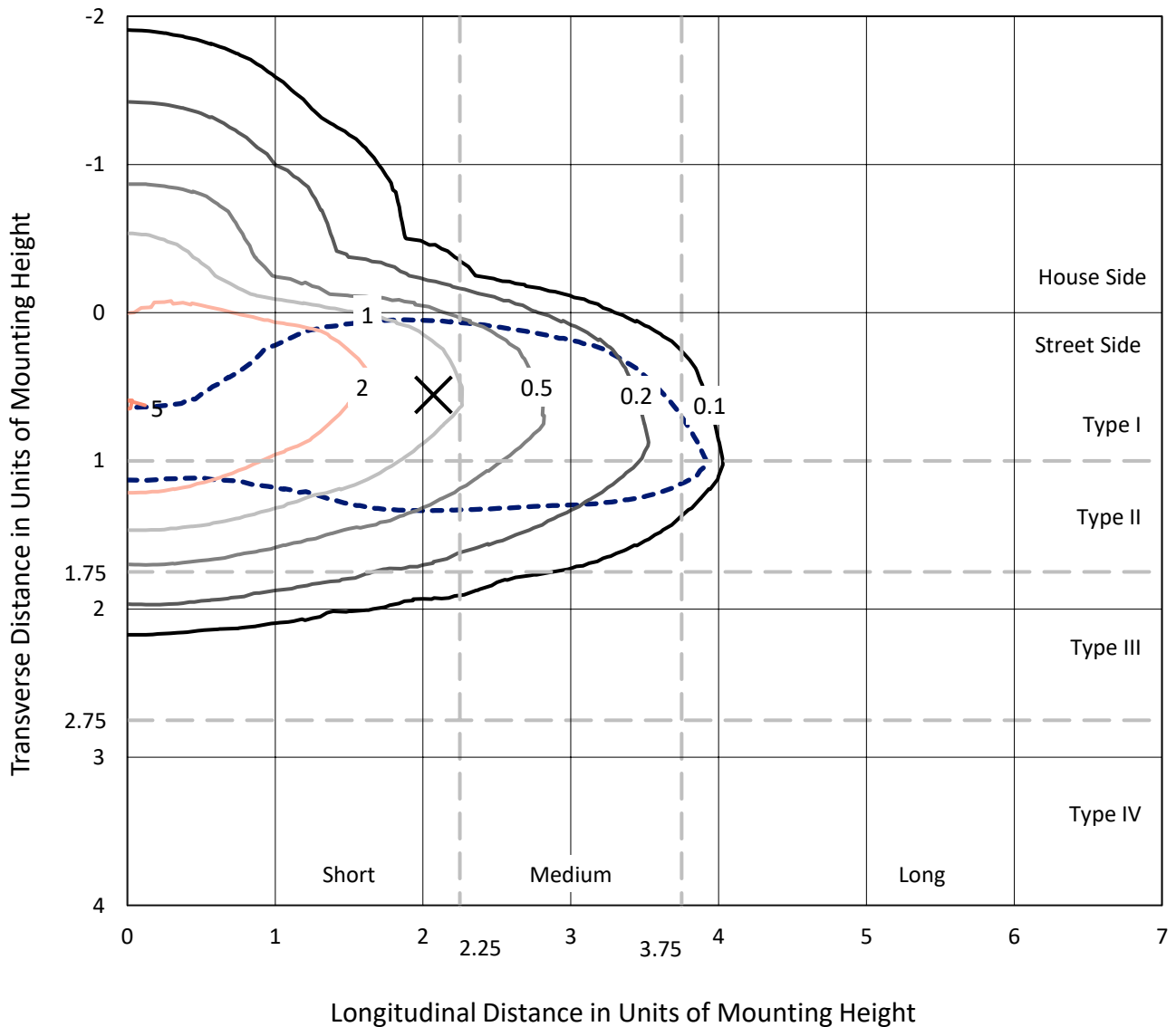
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

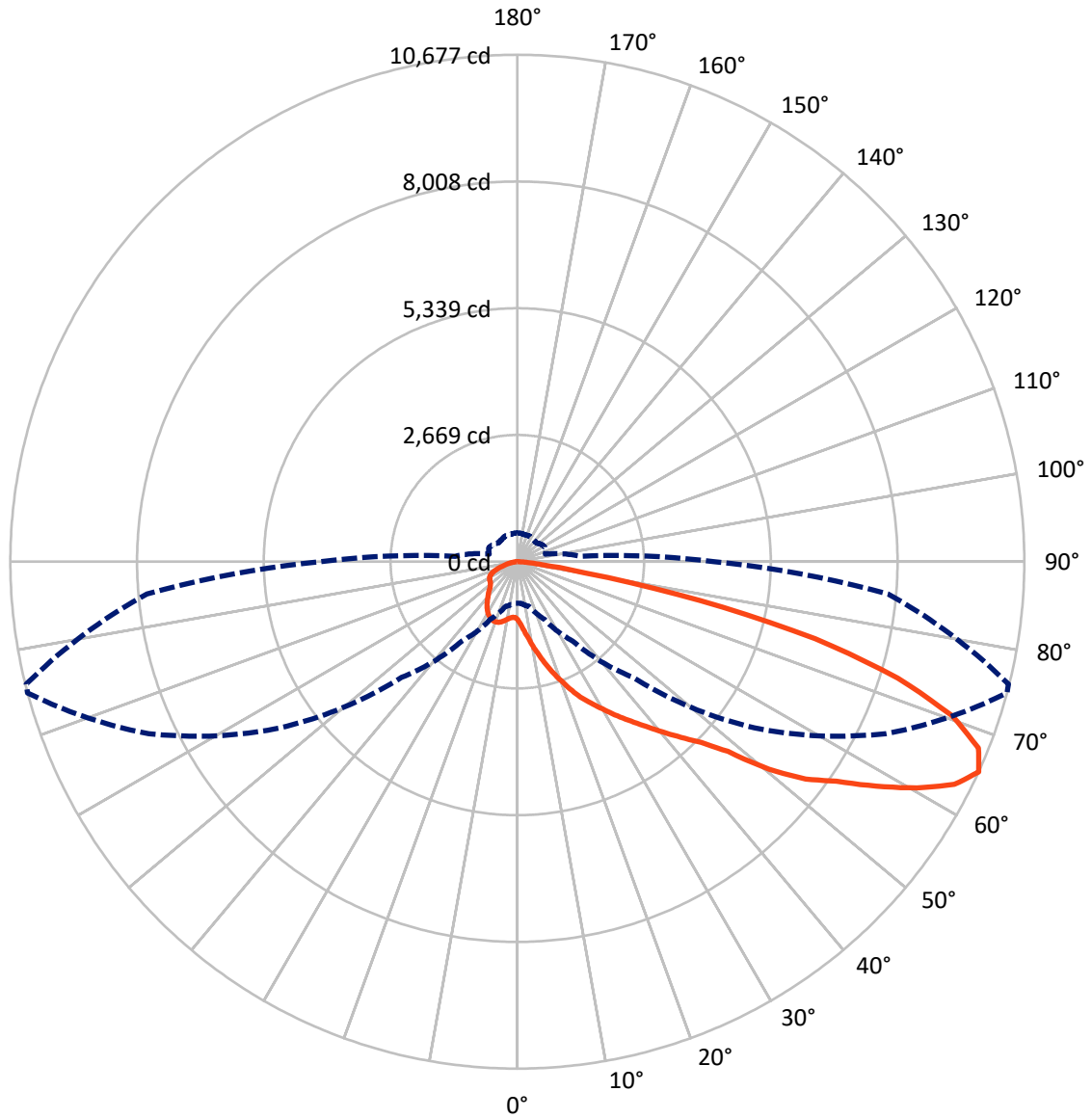
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2206.0	0.0	2206.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	10916.0	0.0	10916.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	13122.0	0.0	13122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	1.1
10°-20°	580.2	4.4
20°-30°	1120.8	8.5
30°-40°	1820.4	13.9
40°-50°	2504.2	19.1
50°-60°	2956.6	22.5
60°-70°	2590.5	19.7
70°-80°	1236.7	9.4
80°-90°	164.6	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°	13122.0	100.0
0°-180°	13122.0	100.0

Coefficient of Utilization



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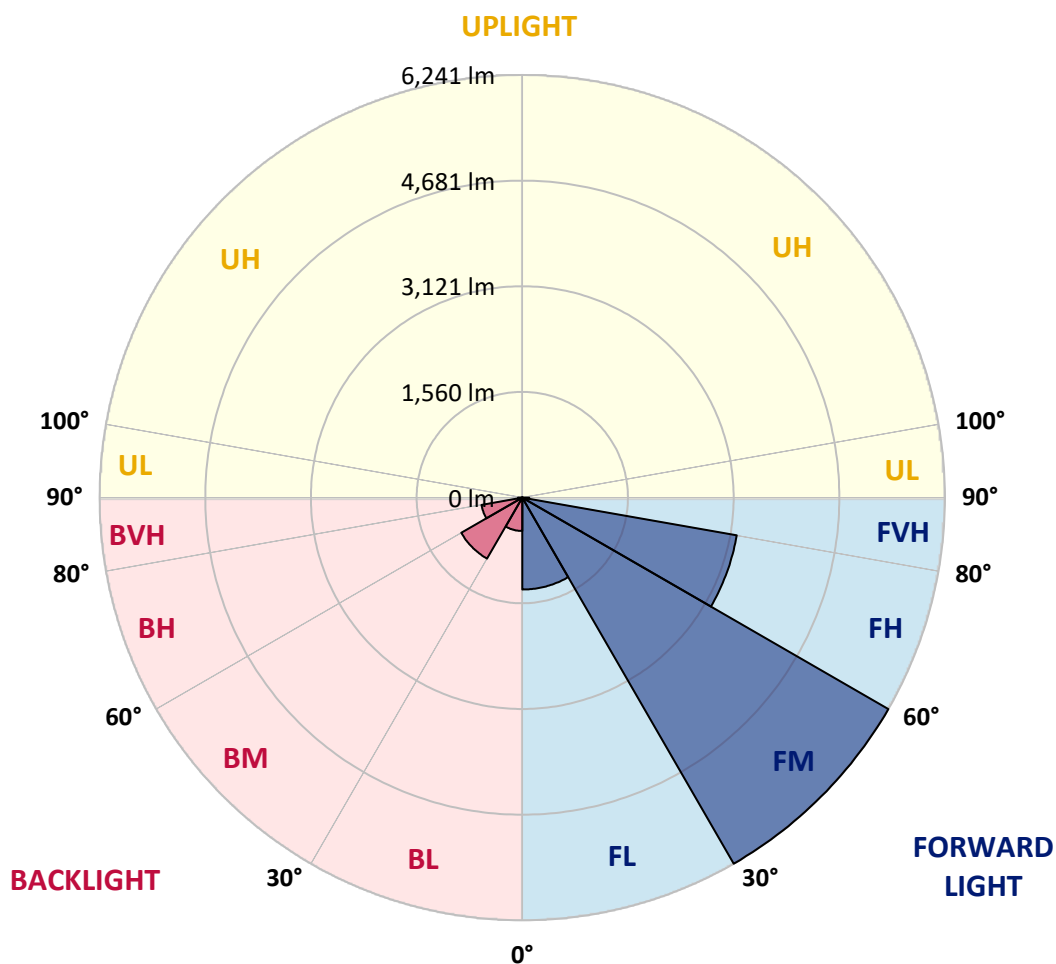
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1356.6	10.3			
FM	(30°-60°)	6241.1	47.6			
FH	(60°-80°)	3215.5	24.5			G2/5000
FVH	(80°-90°)	102.8	0.8			G2/225
BL	(0°-30°)	492.5	3.8	B1/500		
BM	(30°-60°)	1040.1	7.9	B2/2500		
BH	(60°-80°)	611.7	4.7	B2/1000		G2/1000
BVH	(80°-90°)	61.7	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°	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2
2.5°	1619.9	1609.2	1597.8	1566.5	1533.1	1495.4	1441.3	1389.3	1320.3	1318.1	1266.9
5°	2069.0	2061.9	2011.4	1982.2	1904.6	1801.4	1713.9	1577.9	1451.9	1437.0	1337.3
7.5°	2481.8	2454.1	2434.8	2382.2	2305.3	2172.9	2003.5	1819.9	1609.2	1589.3	1424.2
10°	2792.8	2790.0	2780.0	2734.5	2676.8	2545.2	2357.3	2093.9	1808.5	1769.4	1529.5
12.5°	3025.6	3027.7	3026.3	3025.6	2984.3	2872.6	2669.0	2391.4	2009.9	1982.2	1651.2
15°	3178.6	3200.0	3208.5	3244.1	3247.6	3172.9	2997.8	2679.0	2237.0	2195.7	1782.2
17.5°	3279.7	3290.3	3330.2	3390.7	3439.8	3426.3	3270.4	2945.2	2469.0	2400.0	1918.1
20°	3376.5	3395.0	3425.6	3508.1	3595.0	3634.8	3525.2	3217.7	2698.9	2654.8	2068.3
22.5°	3577.9	3604.2	3614.9	3656.9	3730.9	3801.4	3751.5	3479.0	2950.8	2891.1	2227.7
25°	3918.8	3946.6	3916.7	3906.7	3930.9	3965.8	3955.1	3725.2	3188.6	3103.2	2378.6
27.5°	4362.9	4366.5	4308.1	4252.6	4192.8	4175.0	4142.3	3943.7	3395.0	3323.8	2530.2
30°	4839.8	4822.7	4725.9	4625.6	4524.5	4424.8	4330.9	4154.4	3624.9	3543.0	2679.0
32.5°	5282.5	5273.2	5165.8	5009.9	4839.1	4745.1	4555.1	4367.2	3871.1	3792.1	2832.0
35°	5614.2	5627.7	5509.5	5339.4	5153.0	5069.7	4829.8	4590.7	4125.9	4039.8	2998.5
37.5°	5849.7	5842.6	5738.0	5590.7	5427.0	5354.4	5150.8	4834.8	4399.9	4317.4	3180.7
40°	5933.7	5929.5	5851.9	5744.4	5640.5	5614.9	5486.8	5098.1	4713.8	4617.0	3400.0
42.5°	5880.3	5889.6	5838.4	5809.2	5790.0	5808.5	5820.6	5443.3	5056.2	4967.2	3637.7
45°	5716.6	5711.7	5704.5	5752.2	5860.4	5982.1	6150.8	5769.3	5428.4	5357.2	3956.5
47.5°	5424.1	5459.7	5477.5	5609.2	5845.5	6133.7	6530.9	6206.3	5968.6	5906.7	4442.6
50°	5014.9	5043.3	5148.7	5382.8	5735.1	6190.7	6902.4	6920.9	6869.7	6753.6	4970.7
52.5°	4375.7	4419.9	4636.9	5066.1	5508.8	6167.2	7127.3	7533.7	7601.3	7514.5	5491.0
55°	3660.4	3722.4	3951.5	4514.5	5197.1	6039.1	7282.5	7888.9	8158.6	8078.2	5992.1
57.5°	2960.1	3025.6	3261.2	3806.4	4653.3	5755.8	7384.2	8284.6	8917.3	8812.7	6615.6
60°	2218.5	2286.8	2488.9	3050.5	3878.9	5202.1	7315.2	8627.6	9675.3	9630.5	7239.8
62.5°	1431.3	1506.7	1682.5	2147.3	2981.5	4445.5	6945.8	8817.0	10331.5	10277.4	7695.3
65°	871.9	880.4	977.2	1333.1	2040.5	3441.9	6101.0	8565.7	10677.4	10661.1	7834.1
67.5°	563.7	577.2	621.3	798.6	1223.5	2390.7	4878.2	7736.5	10475.3	10469.6	7547.2
70°	476.1	480.4	500.3	538.8	711.0	1449.8	3425.6	6414.9	9707.3	9707.3	6857.6
72.5°	425.6	431.3	438.4	450.5	507.5	821.3	2044.1	4993.5	8381.4	8436.9	5836.9
75°	386.5	385.0	389.3	391.5	432.7	536.6	1056.9	3693.2	6483.9	6372.9	4227.0
77.5°	331.0	333.1	331.0	340.2	382.2	408.5	536.6	2478.3	3929.5	3785.7	2121.7
80°	271.9	275.4	279.0	284.7	326.7	310.3	322.4	1129.5	1453.4	1422.8	655.5
82.5°	204.3	209.2	214.9	228.5	256.9	205.0	203.6	482.6	524.5	480.4	241.3
85°	82.6	97.5	147.3	160.9	161.6	112.5	125.3	201.4	214.2	209.2	94.7
87.5°	19.2	22.8	47.7	71.9	66.2	42.0	46.3	65.5	74.7	69.0	32.0
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°	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2
2.5°	1243.4	1218.5	1175.8	1143.0	1119.6	1098.9	1086.1	1078.3	1075.4	1074.7	1075.4
5°	1285.4	1241.3	1173.6	1130.9	1107.5	1093.9	1086.1	1085.4	1086.1	1086.8	1084.7
7.5°	1343.0	1279.7	1191.4	1151.6	1133.8	1123.8	1120.3	1118.8	1119.6	1118.8	1118.8
10°	1419.9	1333.1	1226.3	1185.0	1170.1	1158.7	1153.0	1149.4	1146.6	1143.8	1142.3
12.5°	1504.6	1392.2	1264.0	1224.2	1202.8	1185.0	1172.2	1163.0	1156.6	1150.2	1148.7
15°	1599.3	1454.8	1306.0	1250.5	1219.9	1193.6	1171.5	1156.6	1145.2	1135.9	1135.2
17.5°	1689.7	1513.9	1334.5	1262.6	1217.8	1180.8	1151.6	1130.9	1116.7	1104.6	1103.2
20°	1786.5	1570.1	1347.3	1254.8	1196.4	1151.6	1113.2	1088.2	1071.9	1058.3	1056.2
22.5°	1884.0	1617.8	1345.9	1229.9	1159.4	1106.7	1066.2	1039.8	1020.6	1007.1	1002.1
25°	1977.2	1656.2	1328.1	1190.0	1108.2	1053.4	1012.1	987.9	970.8	954.4	954.4
27.5°	2061.2	1679.0	1294.6	1141.6	1055.5	997.9	965.1	943.0	927.4	916.7	910.3
30°	2143.7	1689.7	1249.1	1080.4	1000.0	950.9	924.5	911.7	897.5	885.4	884.0
32.5°	2217.8	1687.5	1192.2	1020.6	947.3	912.4	901.8	891.8	876.9	859.8	855.5
35°	2289.6	1673.3	1124.5	955.1	903.2	889.7	892.5	878.3	851.2	829.9	826.3
37.5°	2367.9	1647.7	1050.5	901.8	866.2	879.0	886.1	854.8	810.7	777.2	769.4
40°	2458.3	1618.5	973.7	848.4	837.0	869.0	869.0	811.4	750.9	730.2	724.5
42.5°	2564.4	1594.3	909.6	803.5	812.8	844.8	841.3	753.7	728.8	718.1	715.3
45°	2732.3	1585.7	843.4	764.4	792.9	816.4	787.2	733.8	719.6	711.0	708.2
47.5°	2997.8	1595.7	785.0	735.2	770.1	787.9	726.7	720.3	710.3	698.2	696.8
50°	3244.1	1586.5	743.8	718.9	750.2	753.7	701.8	703.9	698.2	684.7	681.8
52.5°	3445.5	1557.3	717.4	710.3	733.1	693.9	678.3	686.1	684.0	666.9	664.0
55°	3666.9	1539.5	704.6	710.3	721.7	642.0	656.2	667.6	664.8	652.7	651.9
57.5°	3935.2	1543.0	695.4	712.4	710.3	615.6	634.2	647.7	647.0	643.4	643.4
60°	4209.9	1544.5	681.1	711.7	696.8	595.0	611.4	630.6	632.0	634.2	634.2
62.5°	4301.0	1482.5	653.4	698.9	666.9	575.1	590.0	616.4	614.9	620.6	621.3
65°	4130.9	1311.0	612.1	669.7	628.5	560.8	573.7	597.9	590.0	605.0	607.8
67.5°	3760.1	1084.7	548.0	617.1	585.8	545.9	563.0	572.2	558.0	587.2	587.9
70°	3249.8	847.0	466.9	542.3	537.4	530.2	554.4	540.2	520.3	555.9	548.7
72.5°	2717.4	647.0	372.9	443.4	472.6	506.8	539.5	498.9	471.2	481.8	469.0
75°	2041.3	478.3	299.6	347.3	393.6	473.3	526.0	449.1	406.4	396.4	393.6
77.5°	1040.6	312.5	224.2	259.8	295.4	427.8	507.5	390.7	336.6	321.0	313.9
80°	371.5	194.3	158.0	179.4	199.3	368.0	443.4	323.1	261.2	258.4	261.2
82.5°	172.2	125.3	106.0	117.4	118.1	245.5	338.1	241.3	198.6	301.8	254.8
85°	74.0	62.6	59.8	58.4	54.1	109.6	190.0	129.5	202.1	90.4	83.3
87.5°	22.1	24.9	22.1	16.4	12.1	12.1	19.2	7.1	5.0	3.6	3.6
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)