

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: P452240

Luminaire Tested: **GALN-SA3A-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452240
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-SA3A-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11056 lumens
Efficiency: N/A
Efficacy: 118.9 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): 93
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

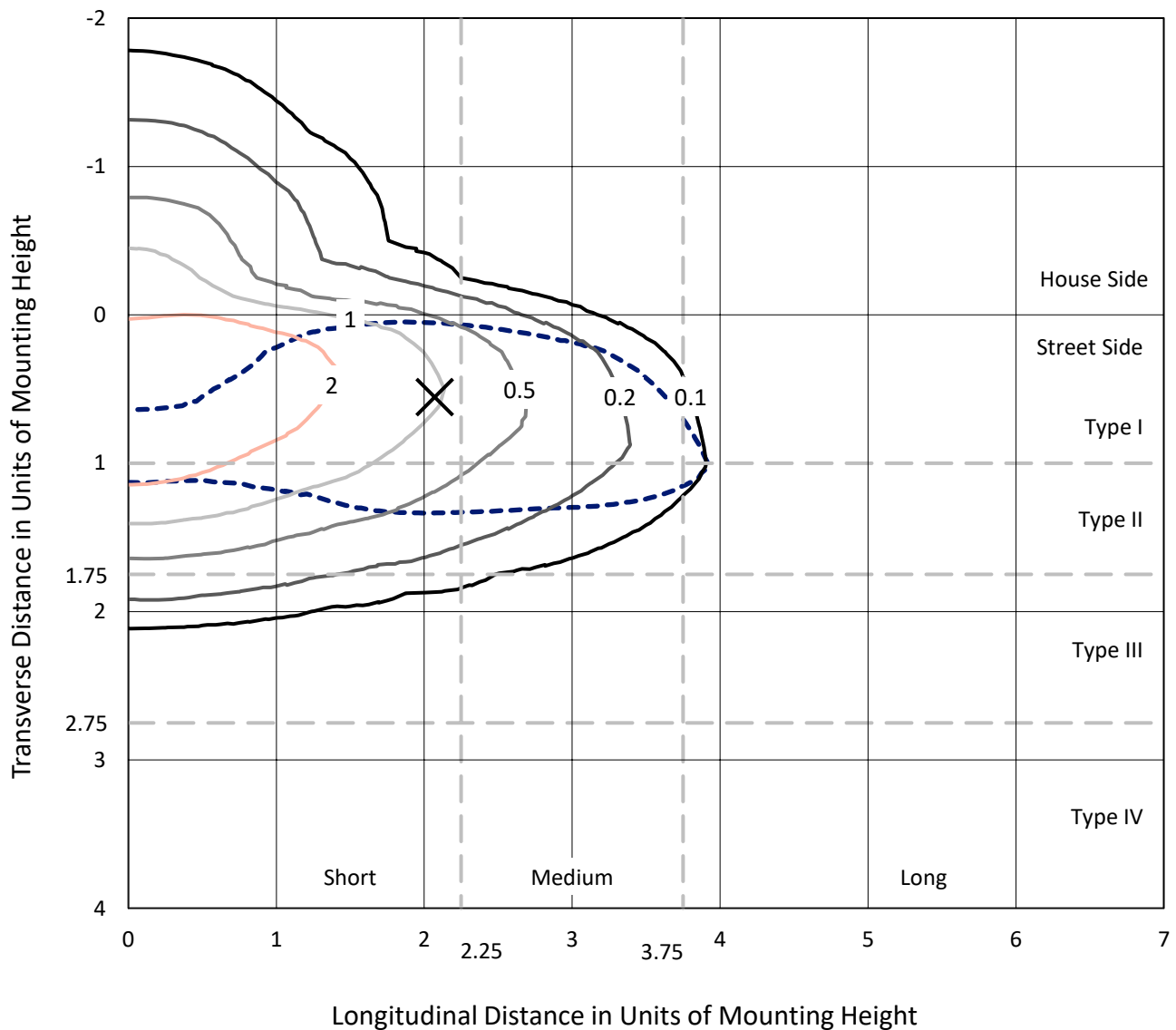


REPORT NUMBER: P452240

CATALOG NUMBER: GALN-SA3A-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

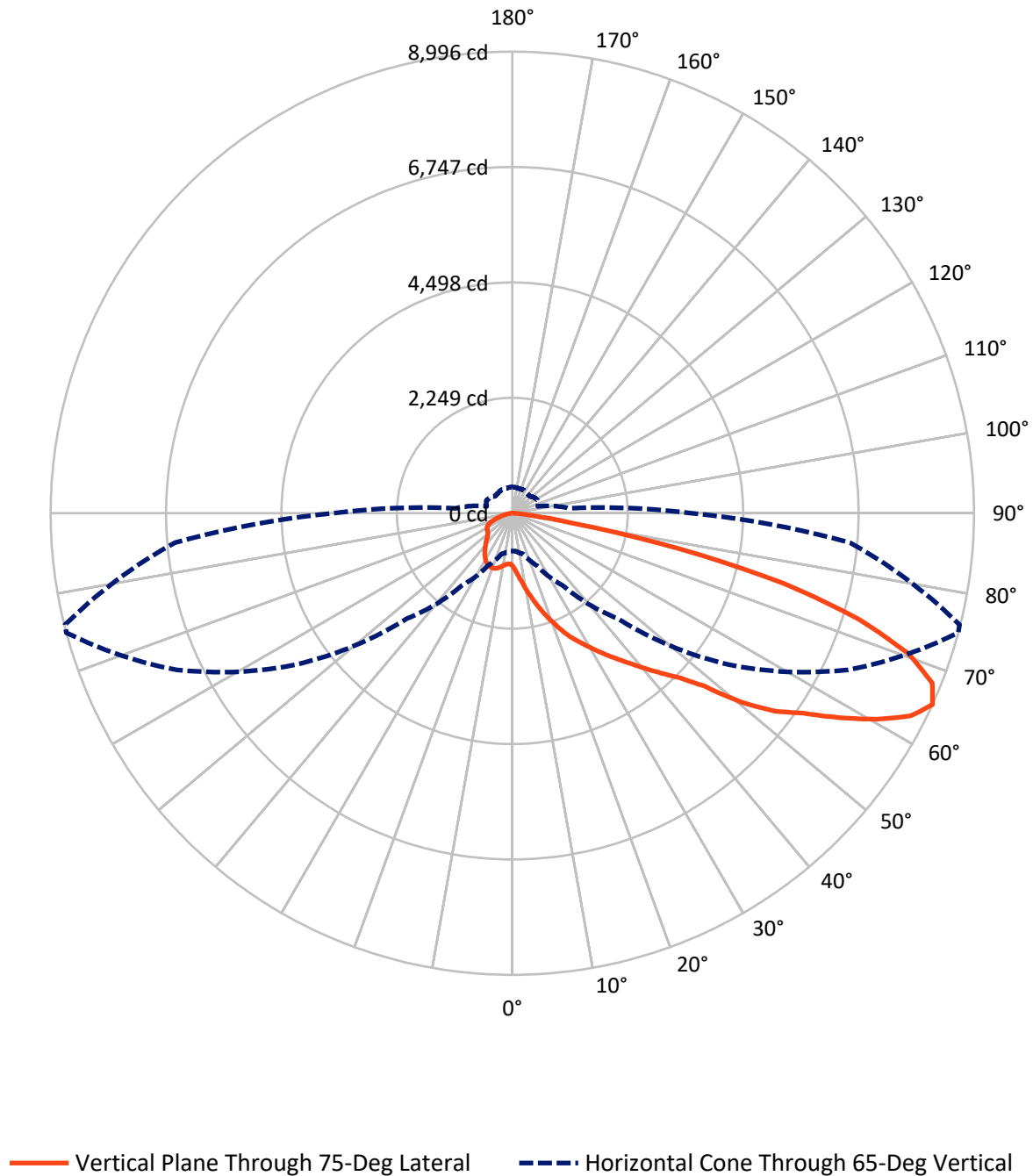


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - N/A

REPORT NUMBER: P452240

CATALOG NUMBER: GALN-SA3A-830-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P452240

CATALOG NUMBER: GALN-SA3A-830-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1858.7	0.0	1858.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	9197.3	0.0	9197.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	11056.0	0.0	11056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	1.1
10°-20°	488.9	4.4
20°-30°	944.3	8.5
30°-40°	1533.8	13.9
40°-50°	2109.9	19.1
50°-60°	2491.1	22.5
60°-70°	2182.6	19.7
70°-80°	1042.0	9.4
80°-90°	138.7	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°	11056.0	100.0
0°-180°	11056.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452240

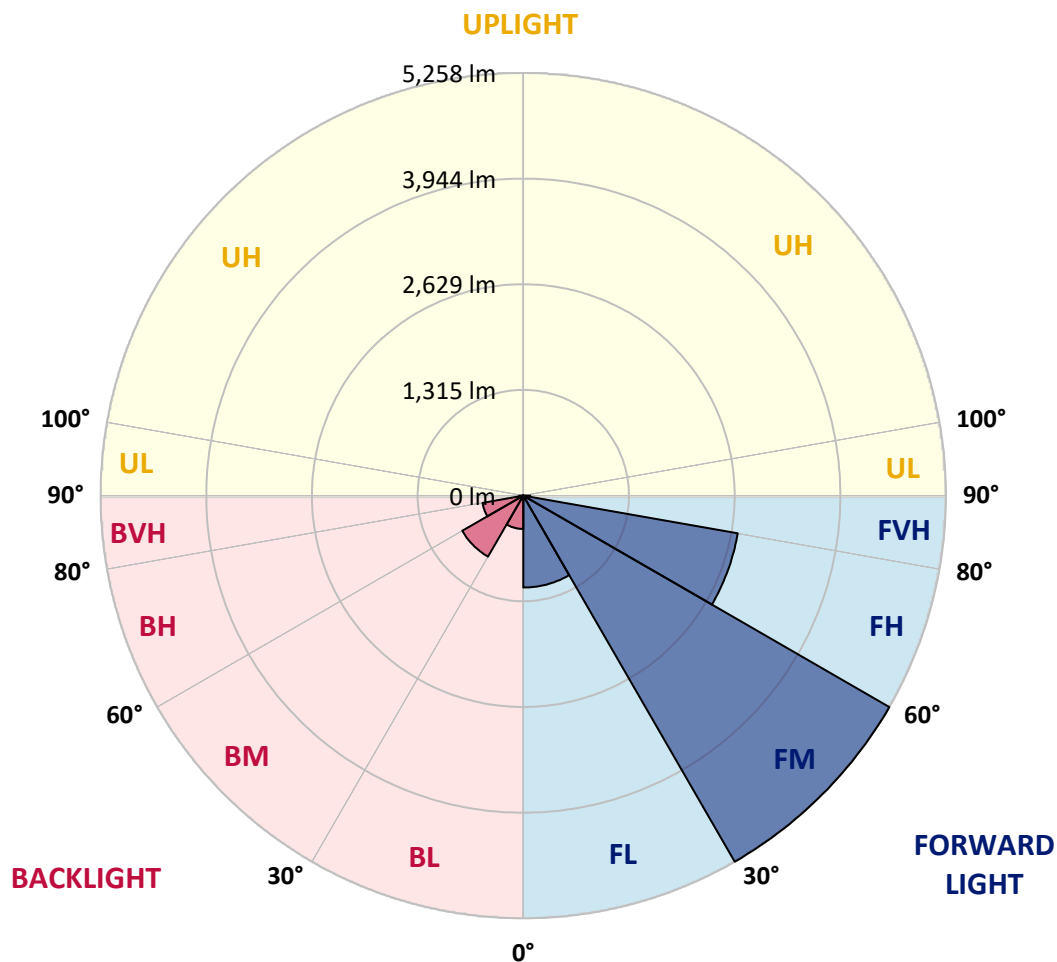
CATALOG NUMBER: GALN-SA3A-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1143.0	10.3			
FM	(30°-60°)	5258.5	47.6			
FH	(60°-80°)	2709.2	24.5			G2/5000
FVH	(80°-90°)	86.7	0.8			G1/100
BL	(0°-30°)	414.9	3.8	B1/500		
BM	(30°-60°)	876.4	7.9	B1/1000		
BH	(60°-80°)	515.4	4.7	B2/1000		G2/1000
BVH	(80°-90°)	52.0	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



REPORT NUMBER: P452240

CATALOG NUMBER: GALN-SA3A-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1027.2	1027.2	1027.2	1027.2	1027.2	1027.2	1027.2	1027.2	1027.2	1027.2	1027.2
2.5°	1364.9	1355.9	1346.3	1319.9	1291.7	1259.9	1214.3	1170.6	1112.4	1110.6	1067.4
5°	1743.3	1737.3	1694.7	1670.1	1604.7	1517.8	1444.0	1329.5	1223.3	1210.7	1126.8
7.5°	2091.1	2067.7	2051.5	2007.1	1942.3	1830.8	1688.1	1533.4	1355.9	1339.1	1199.9
10°	2353.1	2350.7	2342.3	2303.9	2255.4	2144.4	1986.1	1764.2	1523.8	1490.8	1288.7
12.5°	2549.2	2551.0	2549.8	2549.2	2514.4	2420.3	2248.8	2014.9	1693.5	1670.1	1391.2
15°	2678.1	2696.1	2703.3	2733.3	2736.3	2673.3	2525.8	2257.2	1884.8	1850.0	1501.6
17.5°	2763.3	2772.3	2805.9	2856.8	2898.2	2886.8	2755.5	2481.5	2080.3	2022.1	1616.1
20°	2844.9	2860.4	2886.2	2955.8	3029.0	3062.5	2970.2	2711.1	2274.0	2236.8	1742.7
22.5°	3014.6	3036.8	3045.7	3081.1	3143.5	3202.9	3160.9	2931.2	2486.2	2435.9	1877.0
25°	3301.8	3325.2	3300.0	3291.6	3312.0	3341.4	3332.4	3138.7	2686.5	2614.6	2004.1
27.5°	3676.0	3679.0	3629.8	3583.1	3532.7	3517.7	3490.1	3322.8	2860.4	2800.5	2131.8
30°	4077.8	4063.4	3981.8	3897.3	3812.1	3728.2	3649.0	3500.3	3054.1	2985.2	2257.2
32.5°	4450.8	4443.0	4352.4	4221.1	4077.2	3998.0	3837.9	3679.6	3261.6	3195.1	2386.1
35°	4730.2	4741.6	4642.1	4498.8	4341.6	4271.5	4069.4	3867.9	3476.3	3403.8	2526.4
37.5°	4928.7	4922.7	4834.6	4710.4	4572.5	4511.3	4339.8	4073.6	3707.2	3637.6	2679.9
40°	4999.5	4995.9	4930.5	4840.0	4752.4	4730.8	4622.9	4295.5	3971.6	3890.1	2864.6
42.5°	4954.5	4962.3	4919.1	4894.5	4878.4	4893.9	4904.1	4586.3	4260.1	4185.1	3064.9
45°	4816.6	4812.4	4806.4	4846.6	4937.7	5040.3	5182.4	4861.0	4573.7	4513.7	3333.6
47.5°	4570.1	4600.1	4615.1	4726.0	4925.1	5168.0	5502.6	5229.2	5028.9	4976.7	3743.2
50°	4225.3	4249.3	4338.0	4535.3	4832.2	5216.0	5815.6	5831.2	5788.1	5690.3	4188.1
52.5°	3686.8	3724.0	3906.9	4268.5	4641.5	5196.2	6005.1	6347.6	6404.5	6331.4	4626.5
55°	3084.1	3136.3	3329.4	3803.7	4378.8	5088.2	6135.9	6646.8	6874.1	6806.3	5048.7
57.5°	2494.0	2549.2	2747.7	3207.1	3920.7	4849.6	6221.6	6980.2	7513.3	7425.2	5574.0
60°	1869.2	1926.8	2097.1	2570.2	3268.2	4383.0	6163.5	7269.3	8152.0	8114.2	6099.9
62.5°	1205.9	1269.5	1417.6	1809.2	2512.0	3745.6	5852.2	7428.8	8704.9	8659.3	6483.7
65°	734.6	741.8	823.4	1123.2	1719.3	2900.0	5140.4	7217.1	8996.3	8982.5	6600.6
67.5°	474.9	486.3	523.5	672.8	1030.8	2014.3	4110.2	6518.5	8826.0	8821.2	6358.9
70°	401.2	404.8	421.6	454.0	599.1	1221.5	2886.2	5404.9	8179.0	8179.0	5777.9
72.5°	358.6	363.4	369.4	379.6	427.6	692.0	1722.3	4207.3	7061.8	7108.5	4917.9
75°	325.6	324.4	328.0	329.8	364.6	452.2	890.5	3111.7	5463.0	5369.5	3561.5
77.5°	278.8	280.6	278.8	286.6	322.0	344.2	452.2	2088.1	3310.8	3189.7	1787.6
80°	229.1	232.1	235.1	239.9	275.3	261.5	271.7	951.7	1224.5	1198.7	552.3
82.5°	172.1	176.3	181.1	192.5	216.5	172.7	171.5	406.6	442.0	404.8	203.3
85°	69.6	82.2	124.1	135.5	136.1	94.7	105.5	169.7	180.5	176.3	79.8
87.5°	16.2	19.2	40.2	60.6	55.8	35.4	39.0	55.2	63.0	58.2	27.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452240

CATALOG NUMBER: GALN-SA3A-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1027.2	1027.2	1027.2	1027.2	1027.2	1027.2	1027.2	1027.2	1027.2	1027.2	1027.2
2.5°	1047.6	1026.6	990.7	963.1	943.3	925.9	915.1	908.5	906.1	905.5	906.1
5°	1083.0	1045.8	988.9	952.9	933.1	921.7	915.1	914.5	915.1	915.7	913.9
7.5°	1131.6	1078.2	1003.9	970.3	955.3	946.9	943.9	942.7	943.3	942.7	942.7
10°	1196.4	1123.2	1033.2	998.5	985.9	976.3	971.5	968.5	966.1	963.7	962.5
12.5°	1267.7	1173.0	1065.0	1031.4	1013.4	998.5	987.7	979.9	974.5	969.1	967.9
15°	1347.5	1225.7	1100.4	1053.6	1027.8	1005.7	987.1	974.5	964.9	957.1	956.5
17.5°	1423.6	1275.5	1124.4	1063.8	1026.0	994.9	970.3	952.9	940.9	930.7	929.5
20°	1505.2	1322.9	1135.2	1057.2	1008.1	970.3	937.9	916.9	903.1	891.7	889.9
22.5°	1587.3	1363.1	1134.0	1036.2	976.9	932.5	898.3	876.1	859.9	848.5	844.3
25°	1665.9	1395.4	1119.0	1002.7	933.7	887.5	852.7	832.3	818.0	804.2	804.2
27.5°	1736.7	1414.6	1090.8	961.9	889.3	840.7	813.2	794.6	781.4	772.4	767.0
30°	1806.2	1423.6	1052.4	910.3	842.5	801.2	779.0	768.2	756.2	746.0	744.8
32.5°	1868.6	1421.8	1004.5	859.9	798.2	768.8	759.8	751.4	738.8	724.4	720.8
35°	1929.2	1409.8	947.5	804.8	761.0	749.6	752.0	740.0	717.2	699.2	696.2
37.5°	1995.1	1388.2	885.1	759.8	729.8	740.6	746.6	720.2	683.0	654.8	648.2
40°	2071.3	1363.7	820.4	714.8	705.2	732.2	732.2	683.6	632.7	615.3	610.5
42.5°	2160.6	1343.3	766.4	677.0	684.8	711.8	708.8	635.1	614.1	605.1	602.7
45°	2302.1	1336.1	710.6	644.1	668.0	687.8	663.2	618.3	606.3	599.1	596.7
47.5°	2525.8	1344.5	661.4	619.5	648.8	663.8	612.3	606.9	598.5	588.3	587.1
50°	2733.3	1336.7	626.7	605.7	632.1	635.1	591.3	593.1	588.3	576.9	574.5
52.5°	2903.0	1312.1	604.5	598.5	617.7	584.7	571.5	578.1	576.3	561.9	559.5
55°	3089.5	1297.1	593.7	598.5	608.1	540.9	552.9	562.5	560.1	549.9	549.3
57.5°	3315.6	1300.1	585.9	600.3	598.5	518.7	534.3	545.7	545.1	542.1	542.1
60°	3547.1	1301.3	573.9	599.7	587.1	501.3	515.1	531.3	532.5	534.3	534.3
62.5°	3623.8	1249.1	550.5	588.9	561.9	484.5	497.1	519.3	518.1	522.9	523.5
65°	3480.5	1104.6	515.7	564.3	529.5	472.5	483.3	503.7	497.1	509.7	512.1
67.5°	3168.1	913.9	461.7	519.9	493.5	460.0	474.3	482.1	470.1	494.7	495.3
70°	2738.1	713.6	393.4	457.0	452.8	446.8	467.1	455.2	438.4	468.3	462.3
72.5°	2289.6	545.1	314.2	373.6	398.2	427.0	454.6	420.4	397.0	406.0	395.2
75°	1719.9	403.0	252.5	292.6	331.6	398.8	443.2	378.4	342.4	334.0	331.6
77.5°	876.7	263.3	188.9	218.9	248.9	360.4	427.6	329.2	283.6	270.5	264.5
80°	313.0	163.7	133.1	151.1	167.9	310.0	373.6	272.3	220.1	217.7	220.1
82.5°	145.1	105.5	89.4	98.9	99.5	206.9	284.8	203.3	167.3	254.3	214.7
85°	62.4	52.8	50.4	49.2	45.6	92.3	160.1	109.1	170.3	76.2	70.2
87.5°	18.6	21.0	18.6	13.8	10.2	10.2	16.2	6.0	4.2	3.0	3.0
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)