

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: P451428

Luminaire Tested: **GALN-SA2B-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451428
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-SA2B-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11662 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

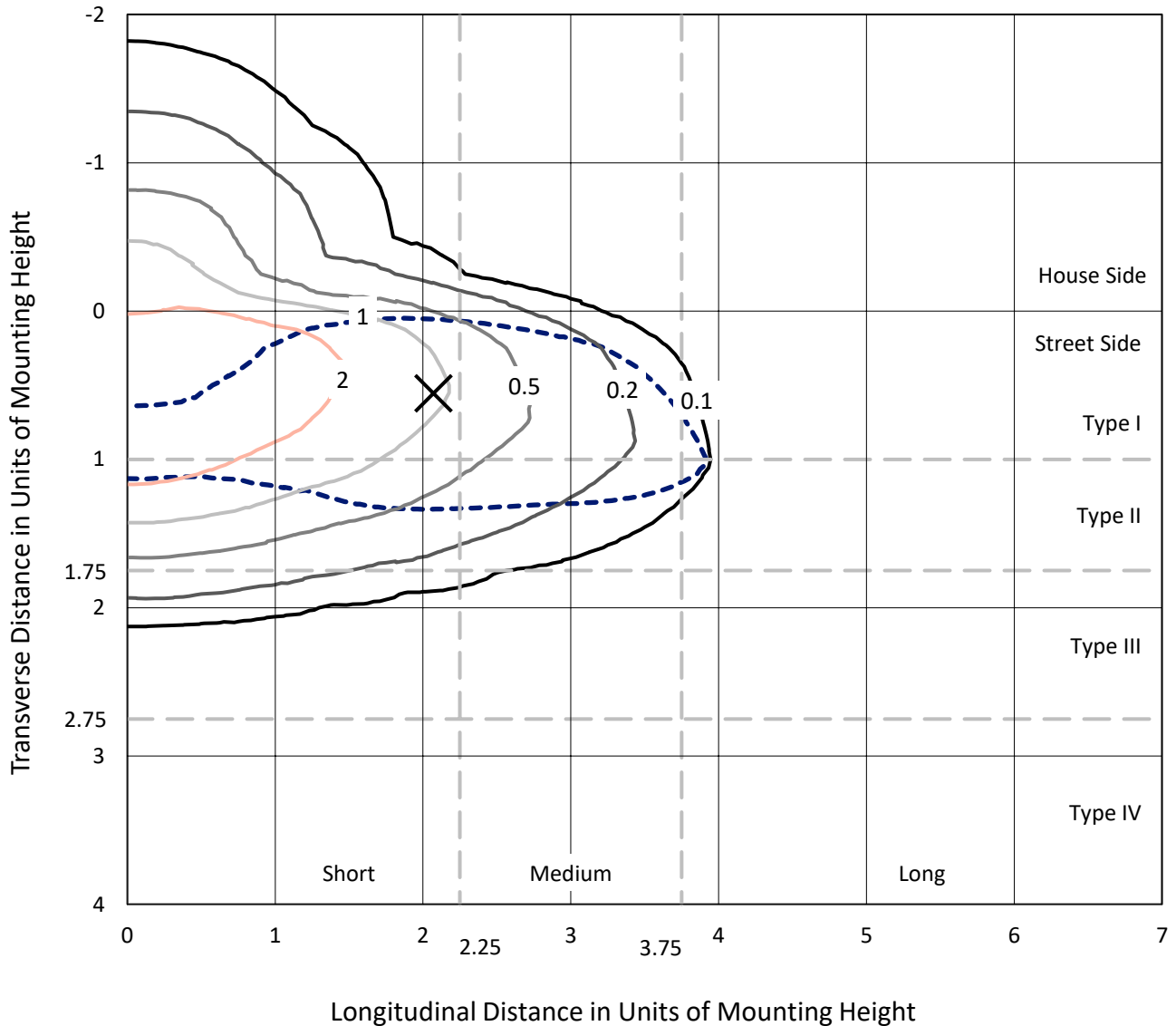
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451428
 CATALOG NUMBER: GALN-SA2B-740-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

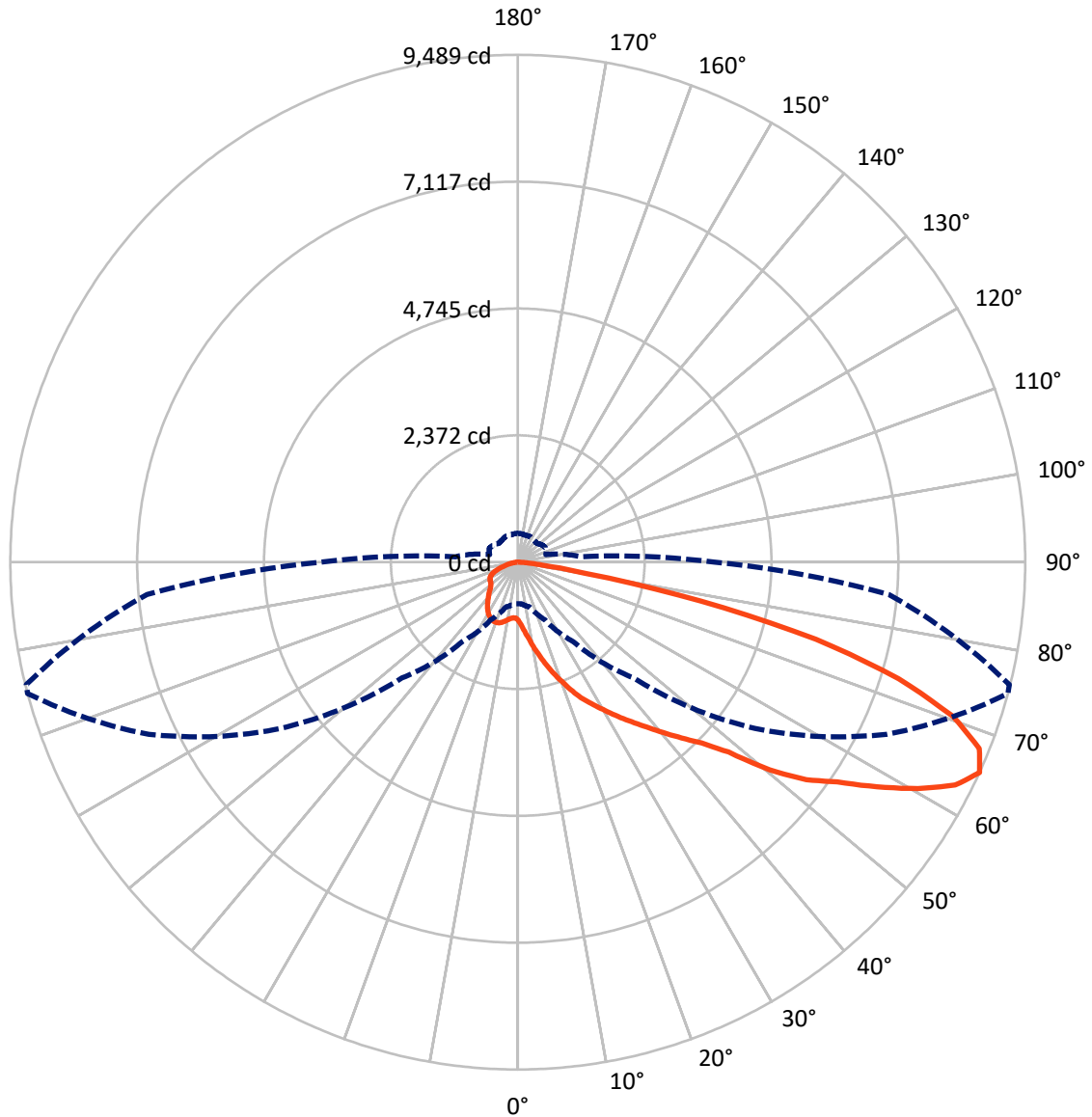
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

REPORT NUMBER: P451428
CATALOG NUMBER: GALN-SA2B-740-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451428

CATALOG NUMBER: GALN-SA2B-740-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1960.5	0.0	1960.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	9701.5	0.0	9701.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	11662.0	0.0	11662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	1.1
10°-20°	515.6	4.4
20°-30°	996.1	8.5
30°-40°	1617.9	13.9
40°-50°	2225.6	19.1
50°-60°	2627.6	22.5
60°-70°	2302.2	19.7
70°-80°	1099.1	9.4
80°-90°	146.2	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°	11662.0	100.0
0°-180°	11662.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451428

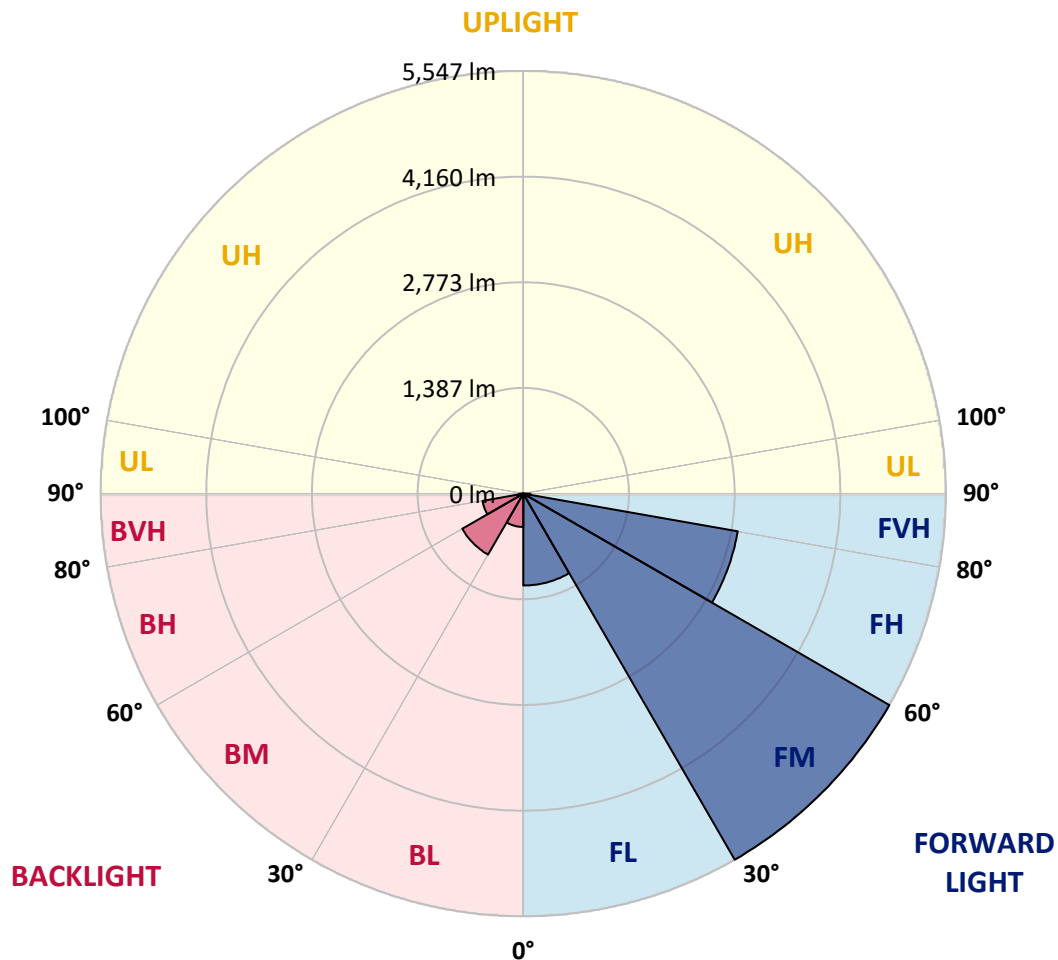
CATALOG NUMBER: GALN-SA2B-740-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1205.7	10.3			
FM	(30°-60°)	5546.7	47.6			
FH	(60°-80°)	2857.7	24.5			G2/5000
FVH	(80°-90°)	91.4	0.8			G1/100
BL	(0°-30°)	437.7	3.8	B1/500		
BM	(30°-60°)	924.4	7.9	B1/1000		
BH	(60°-80°)	543.6	4.7	B2/1000		G2/1000
BVH	(80°-90°)	54.9	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: P451428

CATALOG NUMBER: GALN-SA2B-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1083.5	1083.5	1083.5	1083.5	1083.5	1083.5	1083.5	1083.5	1083.5	1083.5	1083.5
2.5°	1439.7	1430.2	1420.1	1392.2	1362.5	1329.0	1280.9	1234.7	1173.4	1171.5	1125.9
5°	1838.8	1832.5	1787.6	1761.6	1692.7	1601.0	1523.2	1402.3	1290.4	1277.1	1188.5
7.5°	2205.7	2181.0	2163.9	2117.1	2048.8	1931.2	1780.6	1617.4	1430.2	1412.5	1265.7
10°	2482.1	2479.6	2470.7	2430.2	2379.0	2262.0	2095.0	1860.9	1607.3	1572.5	1359.3
12.5°	2688.9	2690.8	2689.6	2688.9	2652.3	2552.9	2372.0	2125.3	1786.3	1761.6	1467.5
15°	2824.9	2843.9	2851.5	2883.1	2886.3	2819.9	2664.3	2380.9	1988.1	1951.4	1583.9
17.5°	2914.8	2924.2	2959.7	3013.4	3057.1	3045.1	2906.5	2617.5	2194.3	2132.9	1704.7
20°	3000.8	3017.2	3044.4	3117.8	3195.0	3230.4	3133.0	2859.7	2398.6	2359.4	1838.2
22.5°	3179.8	3203.2	3212.7	3250.0	3315.8	3378.4	3334.1	3091.9	2622.5	2569.4	1979.9
25°	3482.8	3507.5	3480.9	3472.0	3493.5	3524.5	3515.0	3310.7	2833.8	2757.9	2114.0
27.5°	3877.5	3880.7	3828.8	3779.4	3726.3	3710.5	3681.4	3504.9	3017.2	2954.0	2248.7
30°	4301.3	4286.1	4200.1	4110.9	4021.1	3932.5	3849.0	3692.2	3221.5	3148.8	2380.9
32.5°	4694.7	4686.5	4591.0	4452.5	4300.7	4217.2	4048.3	3881.3	3440.4	3370.2	2516.9
35°	4989.5	5001.5	4896.5	4745.3	4579.6	4505.6	4292.4	4079.9	3666.9	3590.3	2664.9
37.5°	5198.9	5192.5	5099.6	4968.6	4823.1	4758.6	4577.7	4296.9	3910.4	3837.0	2826.8
40°	5273.5	5269.7	5200.8	5105.3	5012.9	4990.1	4876.3	4530.9	4189.3	4103.3	3021.7
42.5°	5226.1	5234.3	5188.8	5162.8	5145.7	5162.2	5172.9	4837.7	4493.6	4414.5	3232.9
45°	5080.6	5076.2	5069.8	5112.2	5208.4	5316.5	5466.4	5127.4	4824.4	4761.2	3516.3
47.5°	4820.6	4852.2	4868.1	4985.1	5195.1	5451.3	5804.2	5515.8	5304.5	5249.5	3948.3
50°	4456.9	4482.2	4575.8	4783.9	5097.0	5501.9	6134.4	6150.9	6105.3	6002.2	4417.7
52.5°	3888.9	3928.1	4121.0	4502.4	4895.9	5481.0	6334.3	6695.5	6755.6	6678.4	4880.1
55°	3253.2	3308.2	3511.9	4012.2	4618.8	5367.1	6472.2	7011.1	7250.8	7179.4	5325.4
57.5°	2630.7	2688.9	2898.3	3382.8	4135.6	5115.4	6562.6	7362.8	7925.1	7832.2	5879.5
60°	1971.6	2032.4	2212.0	2711.1	3447.4	4623.3	6501.3	7667.7	8598.8	8558.9	6434.2
62.5°	1272.0	1339.1	1495.3	1908.4	2649.7	3950.9	6173.0	7835.9	9182.0	9133.9	6839.1
65°	774.9	782.5	868.5	1184.8	1813.5	3059.0	5422.2	7612.7	9489.4	9474.9	6962.4
67.5°	501.0	513.0	552.2	709.7	1087.3	2124.7	4335.5	6875.7	9309.8	9304.7	6707.5
70°	423.2	427.0	444.7	478.8	631.9	1288.5	3044.4	5701.1	8627.3	8627.3	6094.6
72.5°	378.3	383.3	389.6	400.4	451.0	730.0	1816.7	4437.9	7448.8	7498.2	5187.5
75°	343.5	342.2	346.0	347.9	384.6	476.9	939.3	3282.3	5762.5	5663.8	3756.7
77.5°	294.1	296.0	294.1	302.4	339.7	363.1	476.9	2202.5	3492.3	3364.5	1885.6
80°	241.6	244.8	248.0	253.0	290.3	275.8	286.5	1003.8	1291.7	1264.5	582.6
82.5°	181.5	186.0	191.0	203.0	228.3	182.2	180.9	428.9	466.2	427.0	214.4
85°	73.4	86.7	130.9	143.0	143.6	99.9	111.3	179.0	190.4	186.0	84.1
87.5°	17.1	20.2	42.4	63.9	58.8	37.3	41.1	58.2	66.4	61.4	28.5
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: P451428
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1083.5	1083.5	1083.5	1083.5	1083.5	1083.5	1083.5	1083.5	1083.5	1083.5	1083.5
2.5°	1105.1	1082.9	1045.0	1015.9	995.0	976.6	965.3	958.3	955.8	955.1	955.8
5°	1142.4	1103.2	1043.1	1005.1	984.2	972.2	965.3	964.6	965.3	965.9	964.0
7.5°	1193.6	1137.3	1058.9	1023.5	1007.6	998.8	995.6	994.4	995.0	994.4	994.4
10°	1261.9	1184.8	1089.9	1053.2	1039.9	1029.8	1024.7	1021.6	1019.0	1016.5	1015.2
12.5°	1337.2	1237.3	1123.4	1088.0	1069.0	1053.2	1041.8	1033.6	1027.9	1022.2	1020.9
15°	1421.3	1292.9	1160.7	1111.4	1084.2	1060.8	1041.2	1027.9	1017.8	1009.5	1008.9
17.5°	1501.7	1345.4	1186.0	1122.1	1082.3	1049.4	1023.5	1005.1	992.5	981.7	980.4
20°	1587.7	1395.4	1197.4	1115.2	1063.3	1023.5	989.3	967.2	952.6	940.6	938.7
22.5°	1674.3	1437.8	1196.1	1093.0	1030.4	983.6	947.6	924.1	907.1	895.0	890.6
25°	1757.2	1471.9	1180.3	1057.6	984.9	936.2	899.5	878.0	862.8	848.2	848.2
27.5°	1831.8	1492.2	1150.6	1014.6	938.1	886.8	857.7	838.1	824.2	814.7	809.0
30°	1905.2	1501.7	1110.1	960.2	888.7	845.1	821.7	810.3	797.6	786.9	785.6
32.5°	1971.0	1499.8	1059.5	907.1	841.9	810.9	801.4	792.6	779.3	764.1	760.3
35°	2034.9	1487.1	999.4	848.9	802.7	790.7	793.2	780.6	756.5	737.5	734.4
37.5°	2104.5	1464.3	933.6	801.4	769.8	781.2	787.5	759.7	720.5	690.7	683.8
40°	2184.8	1438.4	865.3	754.0	743.9	772.3	772.3	721.1	667.3	649.0	643.9
42.5°	2279.1	1416.9	808.4	714.1	722.4	750.8	747.7	669.9	647.7	638.2	635.7
45°	2428.3	1409.3	749.6	679.4	704.7	725.5	699.6	652.2	639.5	631.9	629.4
47.5°	2664.3	1418.2	697.7	653.4	684.4	700.2	645.8	640.1	631.3	620.5	619.3
50°	2883.1	1409.9	661.0	638.9	666.7	669.9	623.7	625.6	620.5	608.5	606.0
52.5°	3062.1	1384.0	637.6	631.3	651.5	616.7	602.8	609.8	607.9	592.7	590.2
55°	3258.9	1368.2	626.2	631.3	641.4	570.6	583.2	593.3	590.8	580.0	579.4
57.5°	3497.3	1371.4	618.0	633.2	631.3	547.2	563.6	575.6	575.0	571.8	571.8
60°	3741.5	1372.6	605.3	632.5	619.3	528.8	543.4	560.4	561.7	563.6	563.6
62.5°	3822.5	1317.6	580.7	621.2	592.7	511.1	524.4	547.8	546.5	551.6	552.2
65°	3671.3	1165.1	544.0	595.2	558.5	498.4	509.8	531.3	524.4	537.7	540.2
67.5°	3341.7	964.0	487.1	548.4	520.6	485.2	500.3	508.6	495.9	521.8	522.5
70°	2888.2	752.7	414.9	482.0	477.6	471.2	492.8	480.1	462.4	494.0	487.7
72.5°	2415.1	575.0	331.5	394.1	420.0	450.4	479.5	443.4	418.7	428.2	416.8
75°	1814.1	425.1	266.3	308.7	349.8	420.6	467.4	399.1	361.2	352.3	349.8
77.5°	924.8	277.7	199.3	230.9	262.5	380.2	451.0	347.3	299.2	285.3	279.0
80°	330.2	172.7	140.4	159.4	177.1	327.0	394.1	287.2	232.1	229.6	232.1
82.5°	153.1	111.3	94.2	104.4	105.0	218.2	300.5	214.4	176.5	268.2	226.5
85°	65.8	55.7	53.1	51.9	48.1	97.4	168.9	115.1	179.6	80.3	74.0
87.5°	19.6	22.1	19.6	14.5	10.8	10.8	17.1	6.3	4.4	3.2	3.2
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)