

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: P530296

Luminaire Tested: **GALN-SA5C-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28177 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 269
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

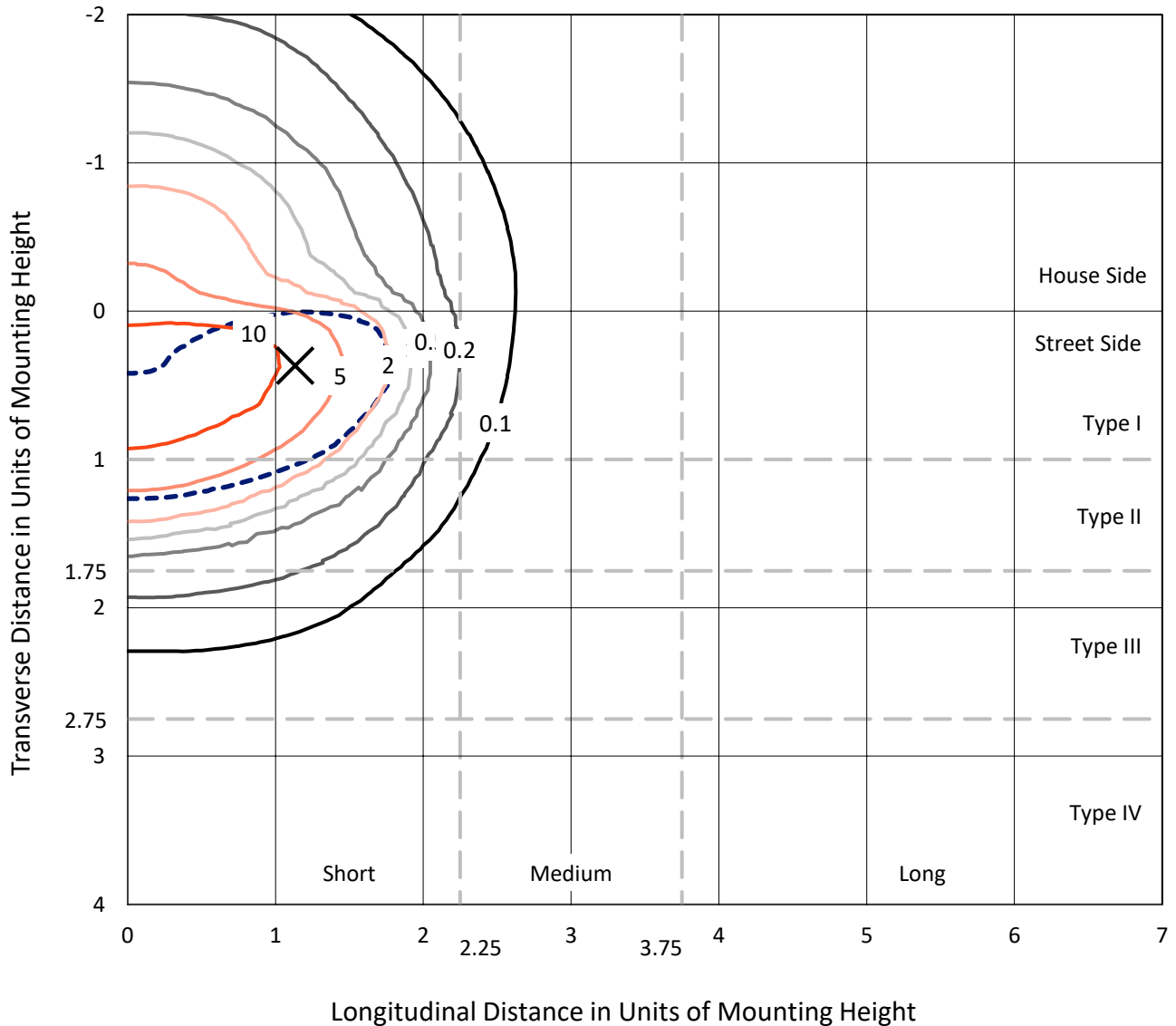




REPORT NUMBER: P530296
 CATALOG NUMBER: GALN-SA5C-730-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

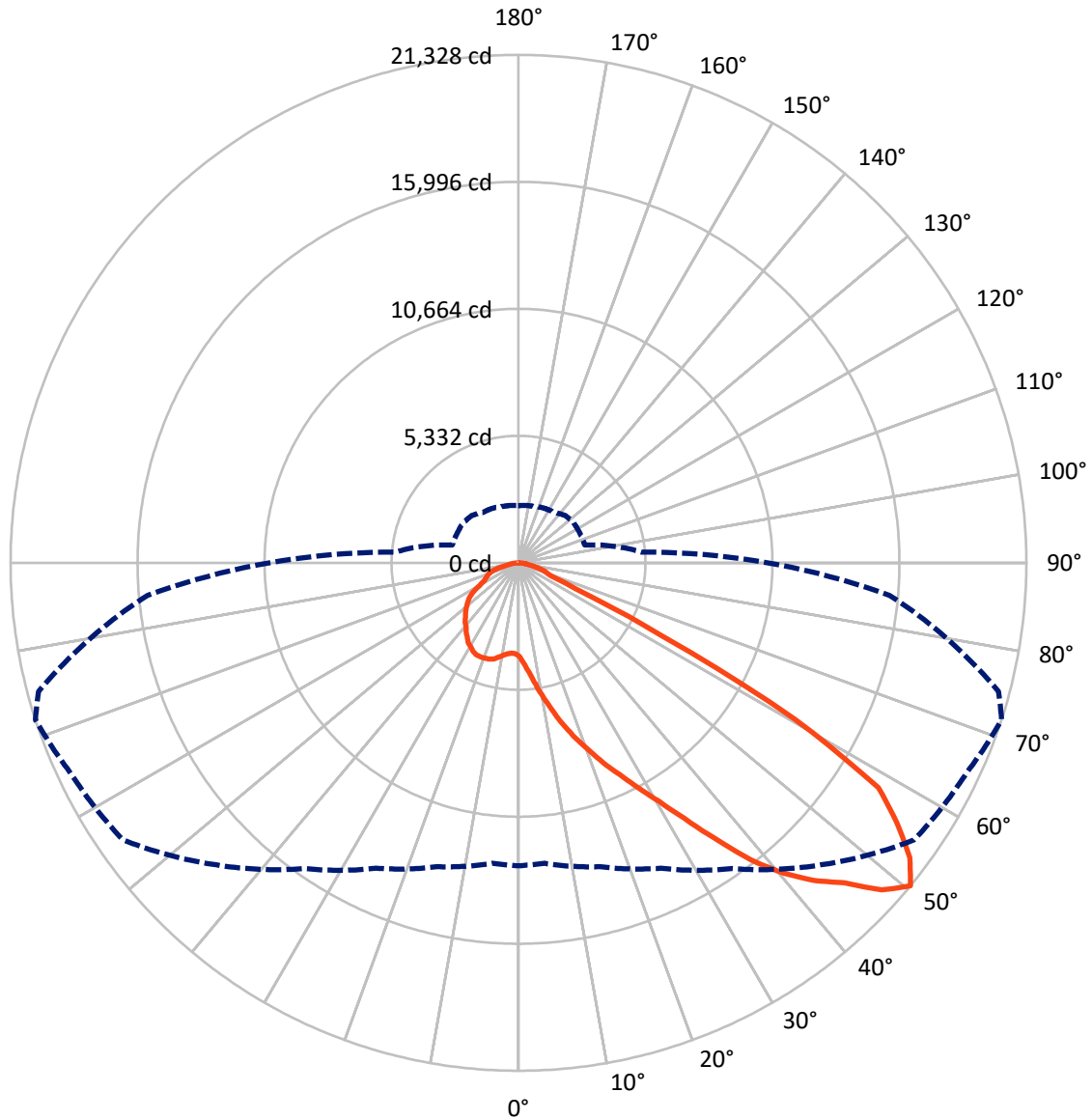
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

REPORT NUMBER: P530296
CATALOG NUMBER: GALN-SA5C-730-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6455.5	0.0	6455.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	21721.5	0.0	21721.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	28177.0	0.0	28177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.4	1.6
10°-20°	1724.8	6.1
20°-30°	3344.3	11.9
30°-40°	5540.3	19.7
40°-50°	7752.1	27.5
50°-60°	6539.9	23.2
60°-70°	1993.3	7.1
70°-80°	699.3	2.5
80°-90°	121.6	0.4
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°	28177.0	100.0
0°-180°	28177.0	100.0

Coefficient of Utilization



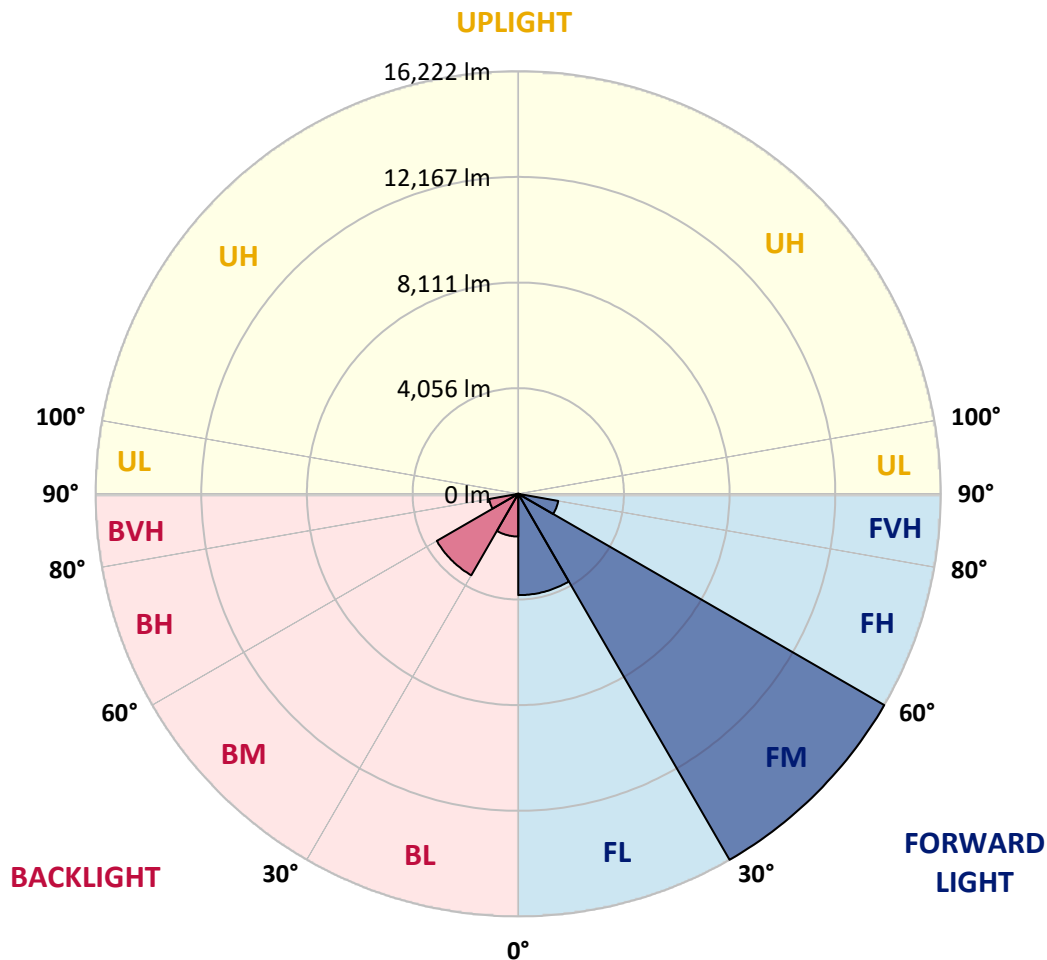
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3889.4	13.8			
FM (30°-60°)	16222.3	57.6			
FH (60°-80°)	1555.3	5.5			G1/1800
FVH (80°-90°)	54.5	0.2			G1/100
BL (0°-30°)	1641.0	5.8	B3/2500		
BM (30°-60°)	3610.0	12.8	B3/5000		
BH (60°-80°)	1137.3	4.0	B3/2500		G3/2500
BVH (80°-90°)	67.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CATALOG NUMBER: GALN-SA5C-730-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5
2.5°	5045.2	5013.8	4919.7	4888.3	4776.7	4574.5	4504.7	4299.0	4211.9	4131.7	4037.5
5°	6380.6	6234.1	6223.7	6045.8	5787.8	5637.9	5191.6	4891.8	4616.3	4476.9	4218.8
7.5°	7231.3	7234.8	7234.8	7088.4	6882.6	6502.6	6101.6	5561.2	5146.3	4940.6	4501.3
10°	8040.2	7970.5	7932.1	7918.2	7778.7	7409.1	6980.3	6310.8	5742.5	5501.9	4713.9
12.5°	8612.0	8552.7	8639.9	8594.6	8493.5	8252.9	7848.4	7084.9	6373.6	6049.3	5055.6
15°	8884.0	8925.8	8995.6	9121.1	9075.7	8985.1	8538.8	7879.8	7053.5	6687.4	5359.0
17.5°	9302.4	9187.3	9271.0	9427.9	9553.4	9511.6	9257.0	8455.1	7726.4	7276.6	5766.9
20°	9595.3	9529.0	9570.8	9752.2	9846.3	10083.4	9950.9	9208.2	8371.4	7897.3	6248.1
22.5°	10432.0	10334.4	10198.4	10226.3	10261.2	10428.6	10459.9	10034.6	9121.1	8619.0	6704.8
25°	11464.1	11373.4	11213.1	11049.2	10948.1	10916.7	11024.8	10683.1	9839.3	9319.8	7196.4
27.5°	12600.7	12447.3	12346.2	12008.0	11736.1	11694.2	11641.9	11457.1	10690.1	10128.7	7750.8
30°	13706.0	13584.0	13448.0	12907.6	12625.2	12579.8	12321.8	12374.1	11614.0	10989.9	8378.4
32.5°	14542.8	14553.3	14243.0	13835.0	13570.0	13329.5	13235.3	13385.2	12799.5	12297.4	9079.2
35°	15219.2	15250.6	14954.2	14584.6	14298.7	14466.1	14424.3	14494.0	14215.1	13601.4	9895.1
37.5°	15878.2	15721.3	15404.0	15226.2	15076.3	15351.7	15707.3	15766.6	15818.9	15097.2	10843.5
40°	15986.3	16000.2	15815.4	15941.0	15752.7	16167.6	16993.9	16917.2	17129.9	16498.8	11872.0
42.5°	15832.9	15864.2	15937.5	16115.3	16568.5	17067.1	18294.4	17980.6	18238.7	17677.3	12872.7
45°	15581.8	15452.8	15543.5	16219.9	17004.4	18113.1	19483.4	19239.3	19155.6	18684.9	14065.1
47.5°	14382.4	14514.9	14797.3	15630.6	16809.1	18294.4	20327.2	20271.4	20522.4	20191.2	15149.5
50°	12719.3	12667.0	13210.9	14148.8	15669.0	17938.8	20281.8	20787.4	21327.8	20867.6	15634.1
52.5°	9525.5	9804.5	10271.7	11436.2	13604.9	16000.2	19291.6	20135.4	20574.7	20477.1	15243.6
55°	6021.4	6105.1	6387.5	7771.7	9724.3	12841.3	16537.2	18493.2	19277.7	19643.8	14884.5
57.5°	2925.3	2768.4	3113.6	4225.8	5617.0	8636.4	12754.2	16108.3	17813.3	18475.7	14103.5
60°	1527.2	1586.4	1722.4	2119.9	2904.4	4483.8	7949.6	10735.4	13339.9	14358.0	10690.1
62.5°	1265.7	1286.6	1377.2	1576.0	1931.6	2580.1	4058.5	5233.5	6802.4	7719.4	6080.7
65°	1073.9	1084.3	1182.0	1314.5	1541.1	1816.5	2088.5	2186.1	2646.4	2716.1	2161.7
67.5°	896.1	906.5	1011.1	1136.6	1283.1	1356.3	1426.0	1419.1	1471.4	1450.4	1447.0
70°	690.4	700.8	808.9	941.4	1014.6	972.8	1188.9	1237.8	1258.7	1276.1	1304.0
72.5°	498.6	519.5	603.2	697.3	659.0	756.6	979.7	1053.0	1080.9	1091.3	1126.2
75°	362.6	369.6	390.5	362.6	418.4	526.5	690.4	781.0	815.9	826.3	878.6
77.5°	160.4	163.9	167.4	209.2	268.5	327.7	411.4	484.6	533.5	547.4	561.4
80°	83.7	87.2	108.1	143.0	191.8	240.6	299.9	341.7	373.1	376.6	390.5
82.5°	52.3	55.8	76.7	101.1	136.0	177.8	219.7	254.5	278.9	282.4	285.9
85°	24.4	31.4	45.3	62.8	90.7	115.1	118.5	101.1	108.1	111.6	104.6
87.5°	7.0	10.5	13.9	10.5	13.9	13.9	17.4	20.9	20.9	20.9	24.4
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°	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5
2.5°	3985.2	3953.9	3831.8	3786.5	3668.0	3688.9	3626.1	3622.6	3608.7	3605.2	3601.7
5°	4082.9	3985.2	3838.8	3727.2	3661.0	3654.0	3608.7	3608.7	3622.6	3633.1	3608.7
7.5°	4243.3	4131.7	3884.1	3779.5	3720.3	3709.8	3678.4	3654.0	3685.4	3674.9	3647.0
10°	4428.0	4232.8	3971.3	3880.6	3783.0	3758.6	3758.6	3769.1	3716.8	3734.2	3706.3
12.5°	4633.8	4372.3	4082.9	3978.3	3863.2	3849.3	3842.3	3765.6	3793.5	3779.5	3709.8
15°	4895.3	4532.6	4225.8	4048.0	3950.4	3887.6	3797.0	3783.0	3765.6	3730.7	3699.3
17.5°	5177.7	4707.0	4292.1	4068.9	3922.5	3877.2	3807.4	3734.2	3681.9	3688.9	3664.5
20°	5418.3	4867.4	4316.5	4089.8	3901.6	3814.4	3706.3	3661.0	3605.2	3601.7	3598.2
22.5°	5704.2	5083.5	4351.3	4034.1	3838.8	3748.1	3674.9	3594.7	3556.4	3507.6	3532.0
25°	6045.8	5167.2	4358.3	4002.7	3793.5	3633.1	3594.7	3507.6	3493.6	3423.9	3437.8
27.5°	6293.4	5212.5	4302.5	3905.0	3688.9	3566.8	3497.1	3434.3	3409.9	3357.6	3343.7
30°	6624.6	5282.3	4184.0	3783.0	3584.3	3448.3	3406.5	3392.5	3322.8	3267.0	3260.0
32.5°	7001.2	5327.6	4107.3	3657.5	3476.2	3371.6	3392.5	3326.3	3239.1	3190.3	3176.3
35°	7301.0	5345.0	3915.5	3514.5	3403.0	3336.7	3312.3	3298.4	3172.8	3127.5	3092.7
37.5°	7757.8	5306.7	3755.1	3413.4	3322.8	3298.4	3277.4	3183.3	3040.4	2974.1	2925.3
40°	8291.2	5296.2	3549.4	3270.5	3246.1	3274.0	3211.2	3064.8	2866.0	2792.8	2757.9
42.5°	8803.8	5369.4	3420.4	3193.8	3162.4	3172.8	3085.7	2866.0	2768.4	2726.6	2670.8
45°	9661.5	5522.8	3207.7	3075.2	3061.3	3054.3	2949.7	2719.6	2663.8	2611.5	2601.0
47.5°	10435.5	5421.7	3071.7	2953.2	2967.1	2928.8	2705.6	2632.4	2569.7	2517.4	2499.9
50°	10480.9	5181.2	2880.0	2859.1	2862.5	2796.3	2583.6	2534.8	2454.6	2419.7	2395.3
52.5°	10243.8	4787.2	2702.2	2709.1	2719.6	2611.5	2433.7	2398.8	2332.6	2283.8	2269.8
55°	9577.8	4173.5	2527.8	2555.7	2583.6	2377.9	2322.1	2234.9	2182.6	2112.9	2116.4
57.5°	8437.7	3361.1	2283.8	2329.1	2388.4	2161.7	2119.9	2011.8	1935.1	1879.3	1872.3
60°	5655.3	2391.8	1917.7	1935.1	2067.6	1976.9	1973.4	1865.4	1760.8	1711.9	1684.1
62.5°	3336.7	1827.0	1656.2	1638.7	1635.2	1687.5	1774.7	1736.4	1600.4	1506.2	1534.1
65°	1746.8	1579.5	1541.1	1481.8	1447.0	1433.0	1499.3	1516.7	1426.0	1324.9	1318.0
67.5°	1467.9	1467.9	1436.5	1415.6	1366.8	1307.5	1265.7	1209.9	1195.9	1168.0	1133.2
70°	1335.4	1370.3	1359.8	1311.0	1269.1	1202.9	1094.8	1004.2	917.0	885.6	906.5
72.5°	1164.5	1199.4	1199.4	1175.0	1119.2	1018.1	913.5	808.9	735.7	679.9	672.9
75°	896.1	913.5	955.3	927.4	854.2	791.5	683.4	575.3	505.6	453.3	442.8
77.5°	571.8	599.7	599.7	596.2	543.9	484.6	414.9	338.2	285.9	247.6	237.1
80°	380.0	397.5	411.4	397.5	362.6	317.3	265.0	212.7	174.3	143.0	136.0
82.5°	278.9	299.9	310.3	296.4	261.5	226.6	188.3	149.9	111.6	87.2	80.2
85°	108.1	111.6	125.5	149.9	146.4	143.0	115.1	83.7	62.8	45.3	41.8
87.5°	27.9	24.4	27.9	27.9	24.4	20.9	20.9	20.9	20.9	10.5	13.9
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)