

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: P457898

Luminaire Tested: **GALN-SA9B-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36782 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

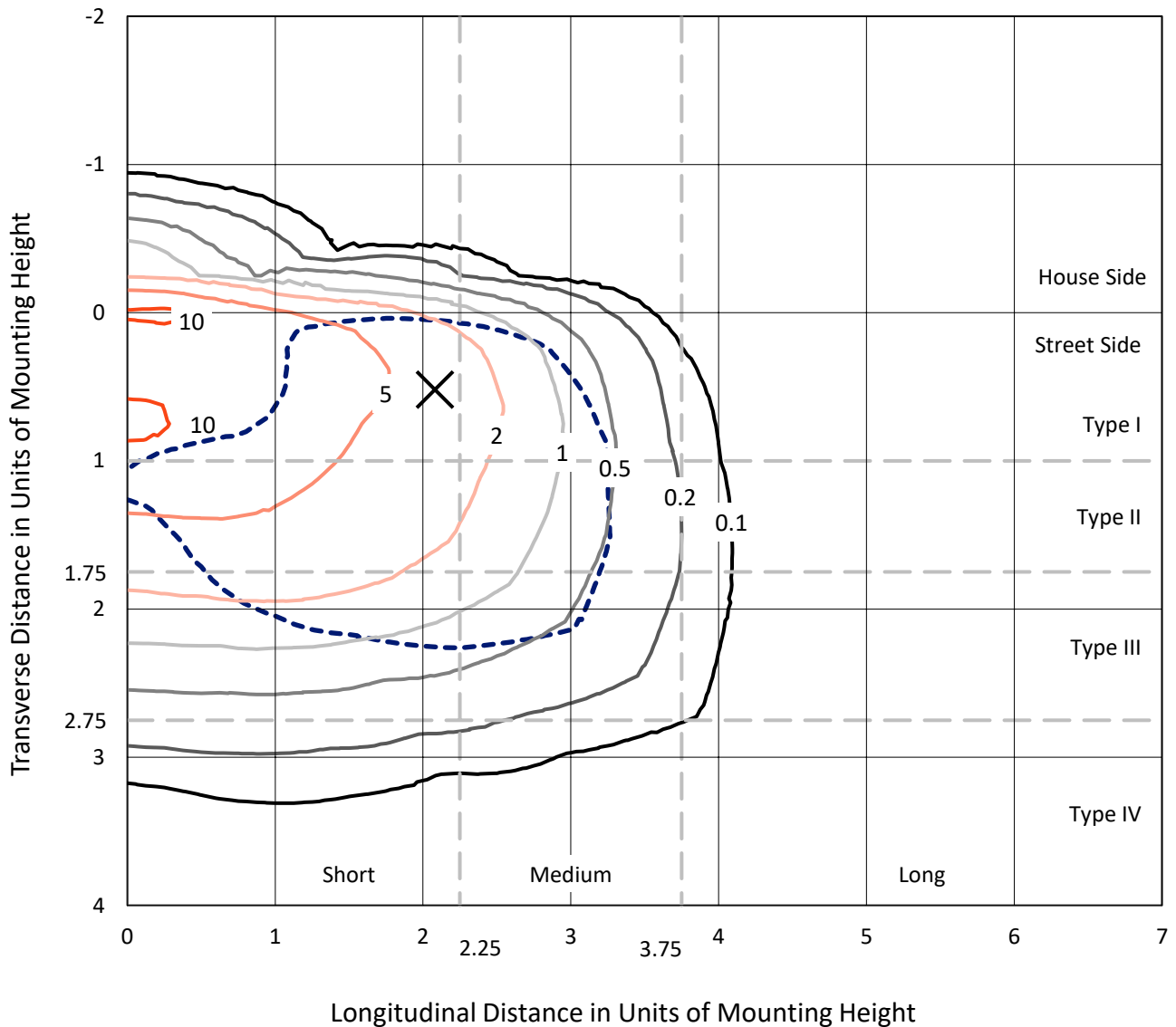
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457898
 CATALOG NUMBER: GALN-SA9B-730-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

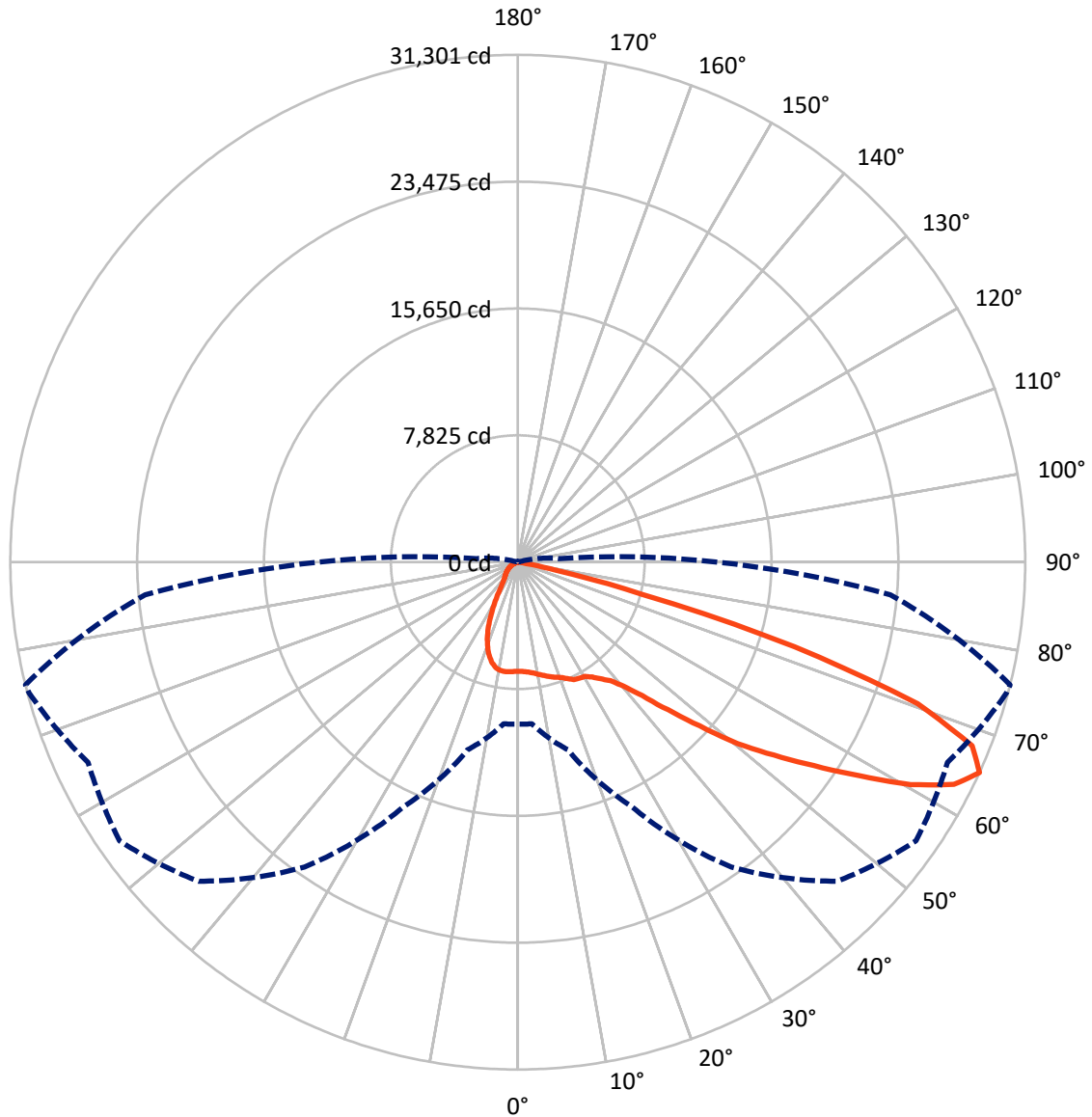
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - N/A

REPORT NUMBER: P457898
CATALOG NUMBER: GALN-SA9B-730-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P457898

CATALOG NUMBER: GALN-SA9B-730-U-T3R-HSS

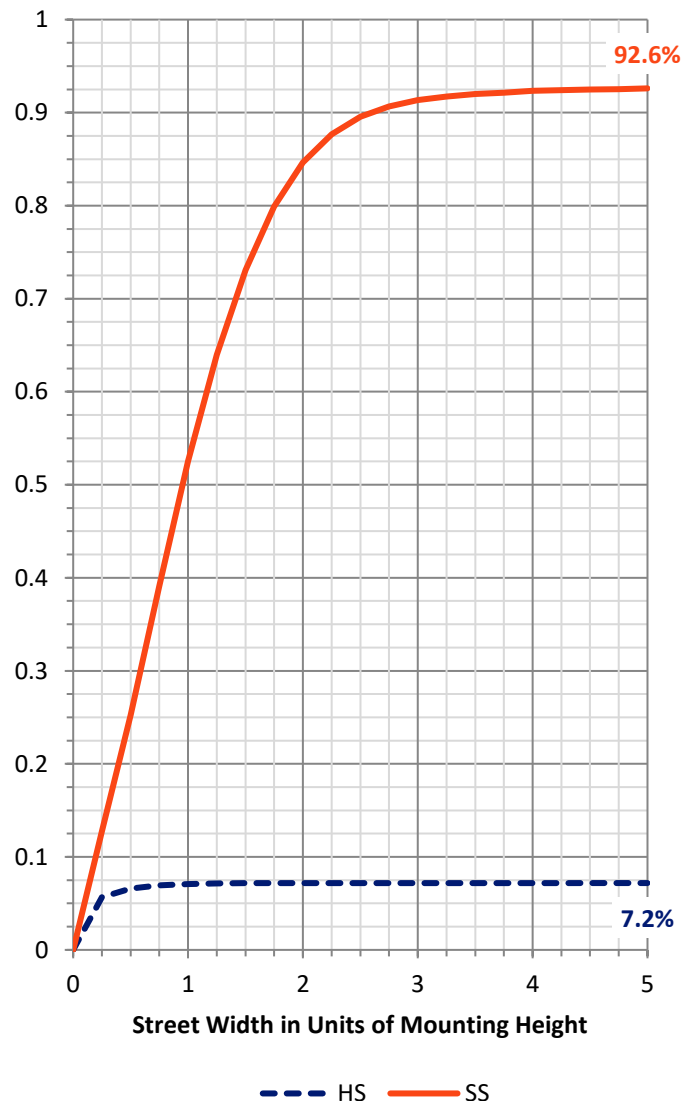
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2656.4	0.0	2656.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	34125.6	0.0	34125.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	36782.0	0.0	36782.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.3	1.5
10°-20°	1234.1	3.4
20°-30°	1988.7	5.4
30°-40°	3457.9	9.4
40°-50°	5713.9	15.5
50°-60°	8826.8	24.0
60°-70°	10778.8	29.3
70°-80°	4090.8	11.1
80°-90°	136.5	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°	36782.0	100.0
0°-180°	36782.0	100.0



REPORT NUMBER: P457898

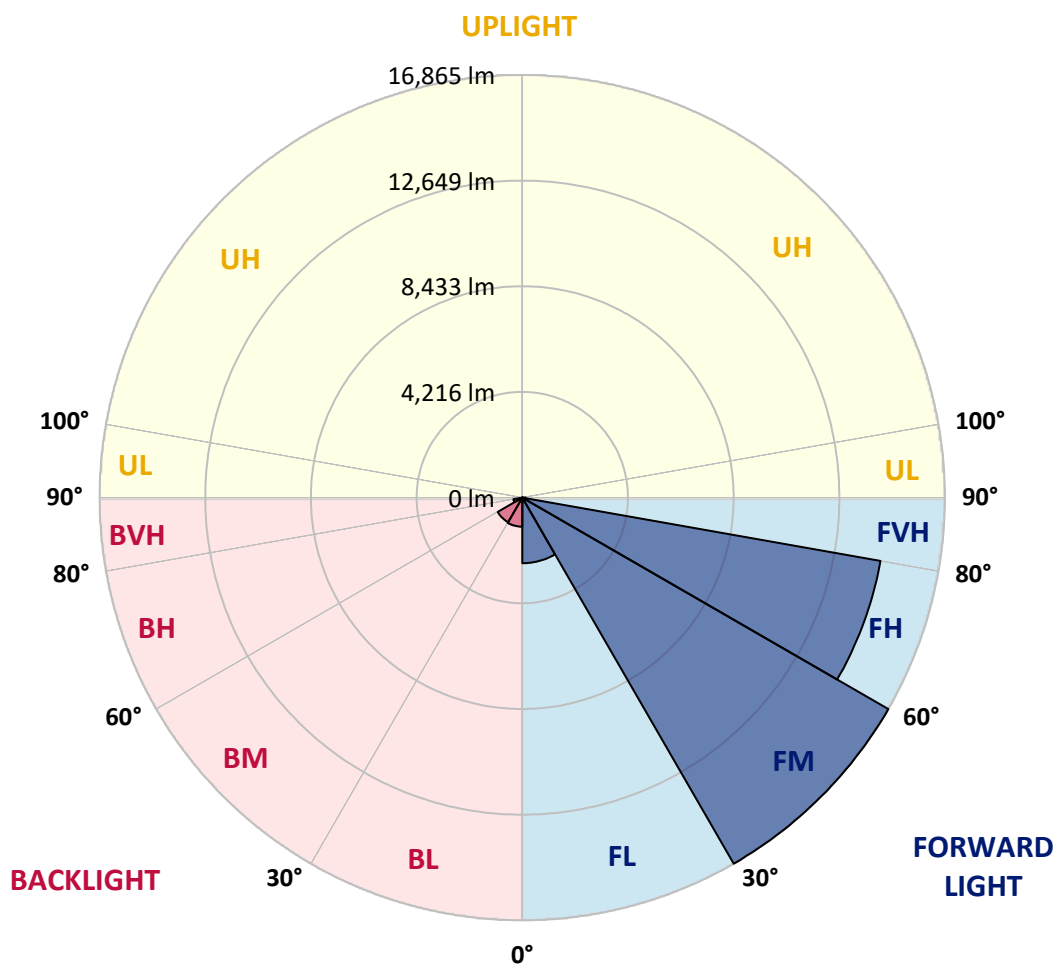
CATALOG NUMBER: GALN-SA9B-730-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2616.6	7.1			
FM (30°-60°)	16865.1	45.9			
FH (60°-80°)	14509.3	39.4			G5
FVH (80°-90°)	134.6	0.4			G2/225
BL (0°-30°)	1160.5	3.2	B3/2500		
BM (30°-60°)	1133.6	3.1	B2/2500		
BH (60°-80°)	360.4	1.0	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P457898

CATALOG NUMBER: GALN-SA9B-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6728.6	6728.6	6728.6	6728.6	6728.6	6728.6	6728.6	6728.6	6728.6	6728.6	6728.6
2.5°	6430.0	6432.6	6448.1	6487.1	6546.8	6596.2	6637.7	6705.2	6752.0	6757.2	6772.7
5°	5985.9	5954.7	5985.9	6087.2	6178.1	6315.7	6484.5	6653.3	6803.9	6814.3	6887.0
7.5°	5487.3	5513.2	5562.6	5666.5	5837.9	6048.2	6292.3	6593.6	6879.2	6905.2	7048.0
10°	4980.9	5038.0	5118.5	5276.9	5515.8	5788.5	6120.9	6552.0	6998.7	7035.0	7281.7
12.5°	4513.4	4539.4	4638.1	4851.0	5147.1	5531.4	5991.1	6528.6	7131.1	7175.3	7531.0
15°	4155.1	4188.8	4274.5	4466.7	4796.5	5289.9	5884.6	6520.8	7261.0	7323.3	7780.4
17.5°	4087.5	4108.3	4144.7	4274.5	4562.8	5097.7	5788.5	6518.3	7385.6	7460.9	8011.5
20°	4365.4	4347.2	4310.9	4297.9	4456.3	4949.7	5718.4	6539.0	7505.1	7590.8	8255.6
22.5°	5061.4	5084.8	4871.8	4619.9	4568.0	4926.3	5708.0	6637.7	7694.7	7795.9	8528.3
25°	6539.0	6359.8	6027.4	5425.0	4970.5	5069.2	5824.9	6871.4	7915.4	8027.1	8775.0
27.5°	8172.5	8118.0	7601.2	6609.1	5762.6	5370.4	6032.6	7050.6	7988.1	8102.4	8915.2
30°	9777.4	9842.3	9250.2	8154.3	6913.0	5928.8	6227.4	7118.1	8053.0	8172.5	9094.4
32.5°	11265.4	11343.3	10823.9	9738.4	8268.6	6894.8	6562.4	7380.4	8325.7	8447.8	9393.0
35°	12436.6	12447.0	12054.9	11190.1	9748.8	8068.6	7286.9	7840.1	8694.5	8837.3	9709.9
37.5°	13511.7	13496.2	13036.5	12291.2	10982.3	9234.6	8198.5	8369.9	9115.2	9263.2	10166.9
40°	14309.0	14319.4	14171.4	13470.2	12132.8	10312.3	8920.4	8865.9	9821.5	10052.7	10831.7
42.5°	14841.4	14937.4	15010.2	14654.4	13579.3	11639.4	10029.3	9928.0	11047.3	11239.4	11771.8
45°	15272.4	15443.8	15807.4	15789.2	14968.6	13267.6	11551.1	11343.3	12784.6	12989.8	12969.0
47.5°	15586.7	15760.7	16363.1	16726.7	16274.9	14846.6	13465.0	13285.8	14859.5	15082.9	14290.8
50°	15747.7	15955.4	16724.1	17427.9	17295.4	16368.3	15646.4	15656.8	17365.6	17581.1	15823.0
52.5°	15371.1	15641.2	16916.3	18183.6	18440.7	17825.2	17690.2	18033.0	19596.3	19780.7	17207.1
55°	14168.8	14509.0	16654.0	18827.6	19767.7	19544.4	20011.8	20533.8	22034.8	22154.3	18627.7
57.5°	13407.9	13768.8	15880.1	19375.6	21362.2	21705.0	22445.1	22826.9	24551.2	24855.1	20258.5
60°	12766.4	13049.5	15243.9	19492.4	22982.7	24348.7	25068.0	25462.7	27657.1	27854.5	22053.0
62.5°	11699.1	12023.7	14168.8	18677.0	23798.1	26465.1	27955.8	27779.2	30059.3	30196.9	23154.1
65°	9982.5	10011.1	11987.4	16628.0	22956.7	27838.9	29984.0	29243.8	31207.1	31300.6	23068.4
67.5°	7450.5	7725.8	9221.6	13070.3	19391.1	26665.1	30641.0	29282.8	30482.6	30222.9	21237.6
70°	4799.1	5009.4	6250.8	9063.2	13981.8	22252.9	28462.2	27275.4	26753.4	26176.9	17383.7
72.5°	2215.2	2485.2	3713.6	5178.2	8291.9	15851.6	23104.7	22159.5	19256.1	17833.0	11049.9
75°	966.1	1033.6	1833.4	2732.0	3887.6	8382.8	15233.5	13755.8	8697.1	7944.0	4422.5
77.5°	589.5	633.6	960.9	1464.7	1527.0	3194.2	8206.2	6001.5	2687.8	2371.0	1199.8
80°	399.9	449.3	698.6	766.1	522.0	890.7	3079.9	1602.3	542.8	519.4	257.1
82.5°	194.8	246.7	516.8	428.5	225.9	285.7	895.9	342.8	158.4	148.0	90.9
85°	28.6	49.3	290.9	280.5	101.3	67.5	158.4	85.7	54.5	51.9	41.6
87.5°	0.0	0.0	98.7	44.1	10.4	10.4	18.2	18.2	20.8	18.2	20.8
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: P457898
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6728.6	6728.6	6728.6	6728.6	6728.6	6728.6	6728.6	6728.6	6728.6	6728.6	6728.6
2.5°	6780.5	6793.5	6744.2	6674.1	6598.8	6523.4	6417.0	6320.9	6263.8	6297.5	6214.4
5°	6902.6	6892.2	6762.4	6549.4	6266.4	5926.2	5588.6	5300.3	5206.8	5066.6	5051.0
7.5°	7071.4	7042.8	6767.6	6279.3	5640.5	5001.7	4378.4	3965.5	3729.2	3529.2	3534.4
10°	7307.7	7224.6	6707.8	5804.1	4752.4	3788.9	2994.2	2448.9	2212.6	2137.3	2077.5
12.5°	7551.8	7390.8	6541.6	5162.7	3700.6	2589.1	1820.4	1488.0	1342.6	1295.9	1290.7
15°	7770.0	7515.5	6250.8	4391.4	2690.4	1654.2	1241.3	1132.3	1114.1	1116.7	1114.1
17.5°	7985.5	7614.1	5848.2	3573.4	1828.2	1186.8	1067.3	1041.4	1049.2	1059.5	1056.9
20°	8164.7	7634.9	5334.1	2726.8	1293.3	1041.4	1002.4	997.2	1005.0	1012.8	1012.8
22.5°	8359.5	7650.5	4723.8	1888.0	1056.9	968.6	947.9	947.9	958.3	968.6	971.2
25°	8504.9	7564.8	3994.1	1355.6	932.3	898.5	888.1	890.7	901.1	906.3	903.7
27.5°	8528.3	7323.3	3220.2	1038.8	846.6	812.8	802.4	812.8	799.8	807.6	802.4
30°	8549.0	7016.9	2435.9	875.2	768.7	716.7	701.2	685.6	675.2	662.2	659.6
32.5°	8614.0	6655.9	1778.9	786.9	696.0	638.8	602.5	558.3	524.6	514.2	511.6
35°	8642.5	6222.2	1306.2	716.7	631.0	568.7	503.8	441.5	392.1	374.0	386.9
37.5°	8751.6	5801.5	1012.8	664.8	573.9	496.0	412.9	335.0	288.3	277.9	283.1
40°	8974.9	5344.4	849.2	620.7	524.6	428.5	327.2	251.9	220.7	210.3	207.8
42.5°	9333.3	4890.0	755.7	579.1	475.2	361.0	257.1	197.4	171.4	163.6	163.6
45°	9769.6	4453.7	690.8	535.0	423.3	290.9	202.6	158.4	142.8	137.6	137.6
47.5°	10343.5	4072.0	636.2	490.8	366.2	231.1	163.6	137.6	127.2	129.8	132.4
50°	10925.2	3788.9	576.5	441.5	301.2	189.6	140.2	122.1	119.5	122.1	122.1
52.5°	11364.1	3622.7	496.0	374.0	236.3	158.4	124.7	114.3	111.7	106.5	106.5
55°	11956.2	3586.3	394.7	303.8	187.0	132.4	111.7	103.9	96.1	90.9	88.3
57.5°	12717.1	3627.9	303.8	236.3	145.4	109.1	98.7	85.7	75.3	64.9	64.9
60°	13189.7	3534.4	236.3	181.8	106.5	88.3	75.3	62.3	49.3	41.6	39.0
62.5°	13039.1	3139.7	187.0	135.0	75.3	64.9	49.3	41.6	28.6	20.8	18.2
65°	12262.6	2534.6	150.6	93.5	54.5	39.0	26.0	26.0	13.0	2.6	0.0
67.5°	10733.0	1877.6	119.5	62.3	31.2	18.2	13.0	7.8	0.0	0.0	0.0
70°	8736.0	1355.6	93.5	39.0	18.2	13.0	5.2	2.6	0.0	0.0	0.0
72.5°	5547.0	776.5	72.7	23.4	13.0	5.2	0.0	0.0	0.0	0.0	0.0
75°	2145.1	303.8	49.3	15.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	607.7	142.8	28.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	158.4	62.3	15.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	75.3	26.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.1	10.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)