

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: P453238

Luminaire Tested: **GALN-SA4B-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16796 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

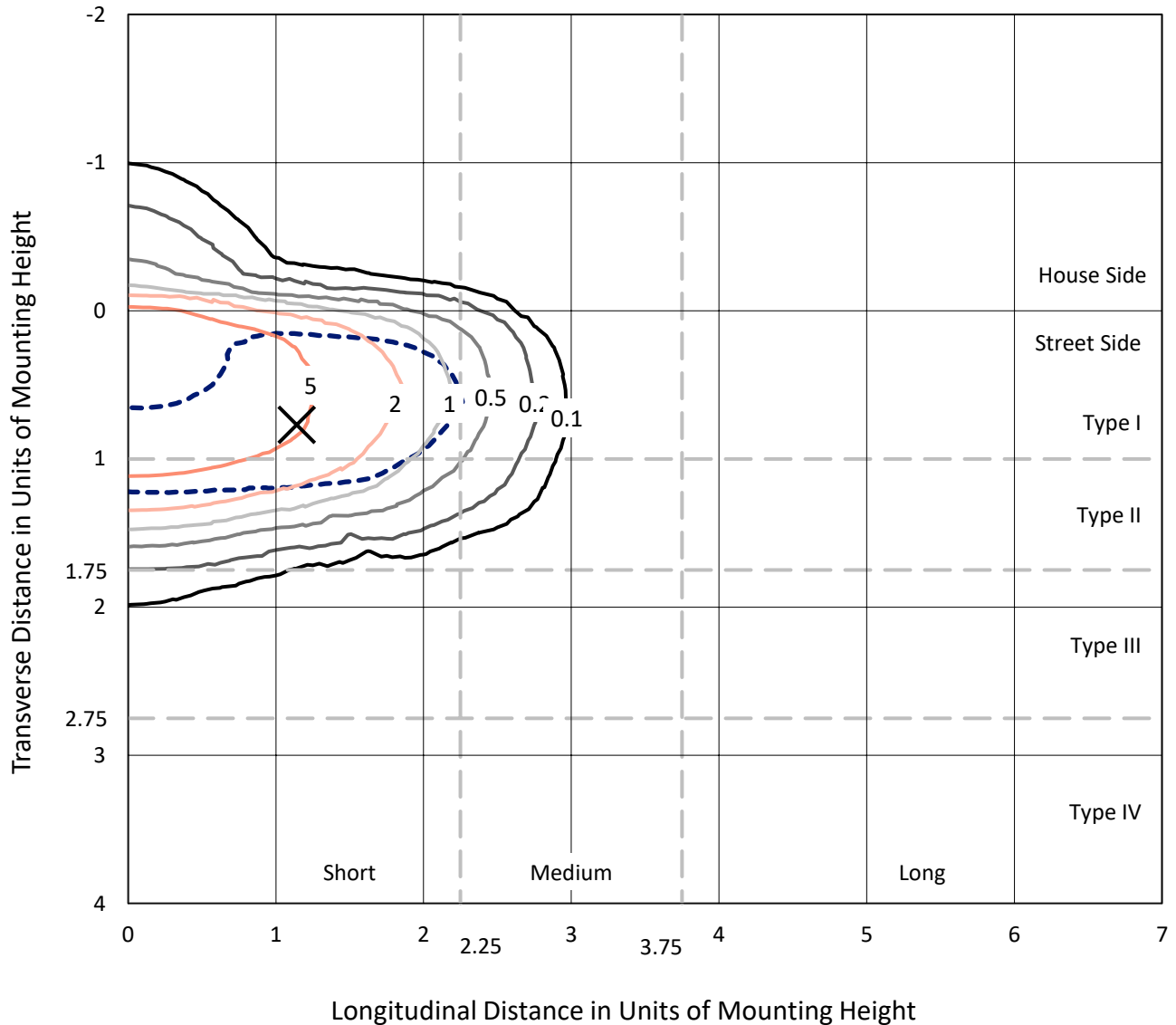
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

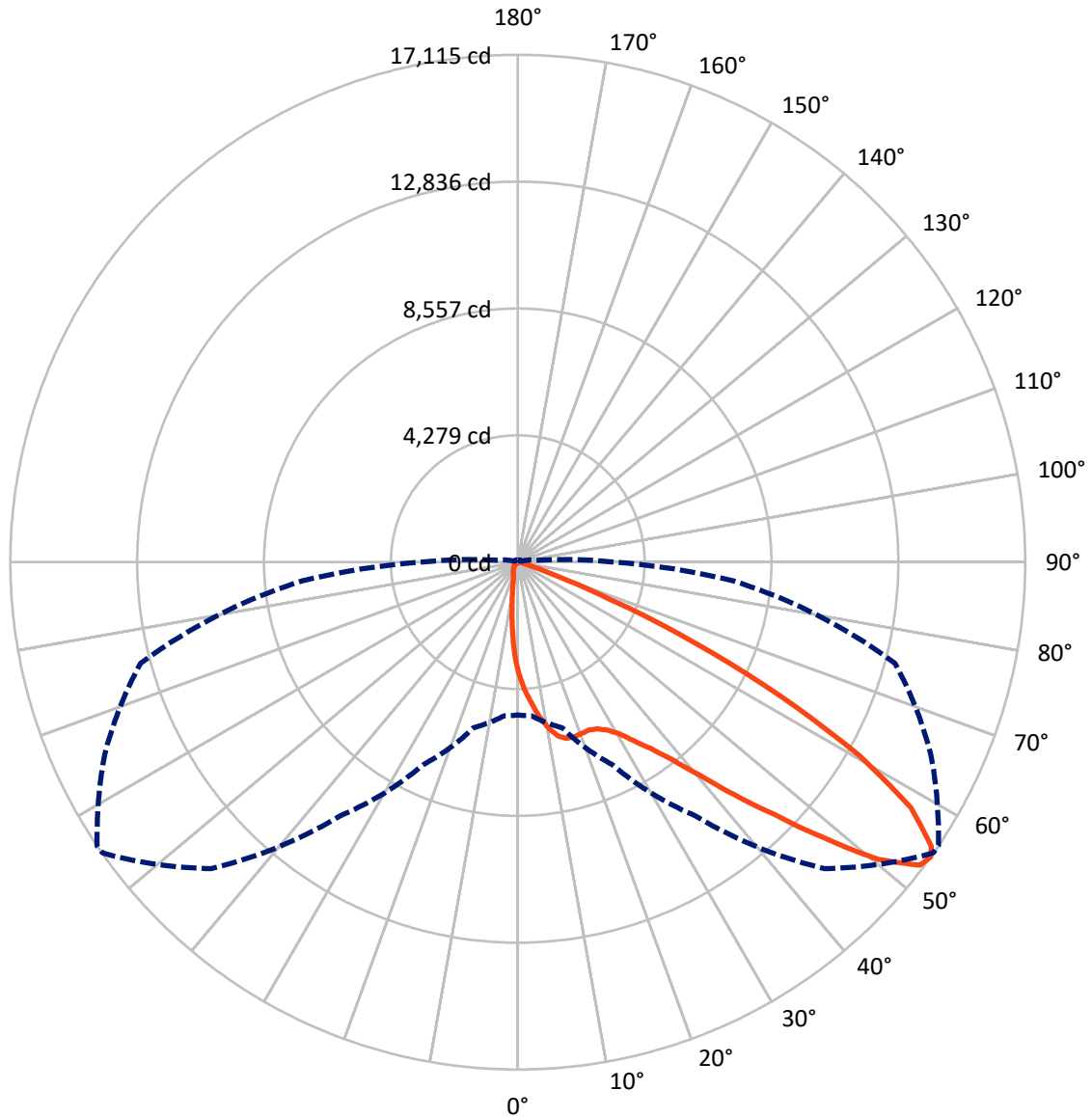
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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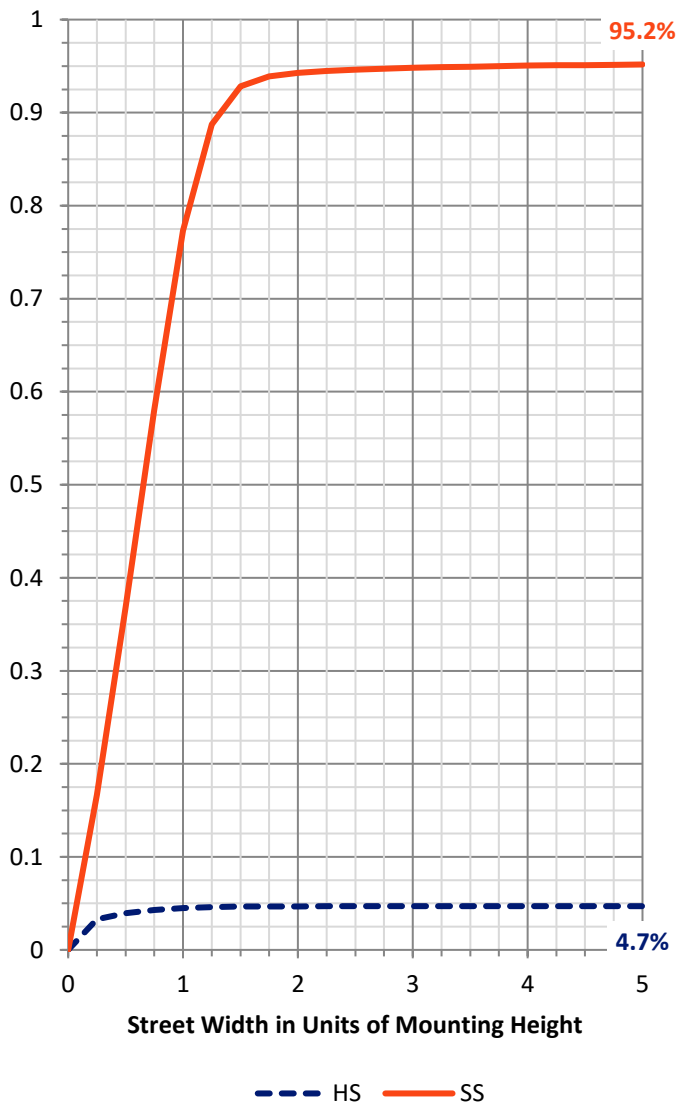
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	794.2	0.0	794.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	16001.8	0.0	16001.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	16796.0	0.0	16796.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.7	2.0
10°-20°	891.4	5.3
20°-30°	1543.9	9.2
30°-40°	2664.9	15.9
40°-50°	4535.8	27.0
50°-60°	4488.7	26.7
60°-70°	2048.8	12.2
70°-80°	263.1	1.6
80°-90°	29.7	0.2
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°	16796.0	100.0
0°-180°	16796.0	100.0

Coefficient of Utilization



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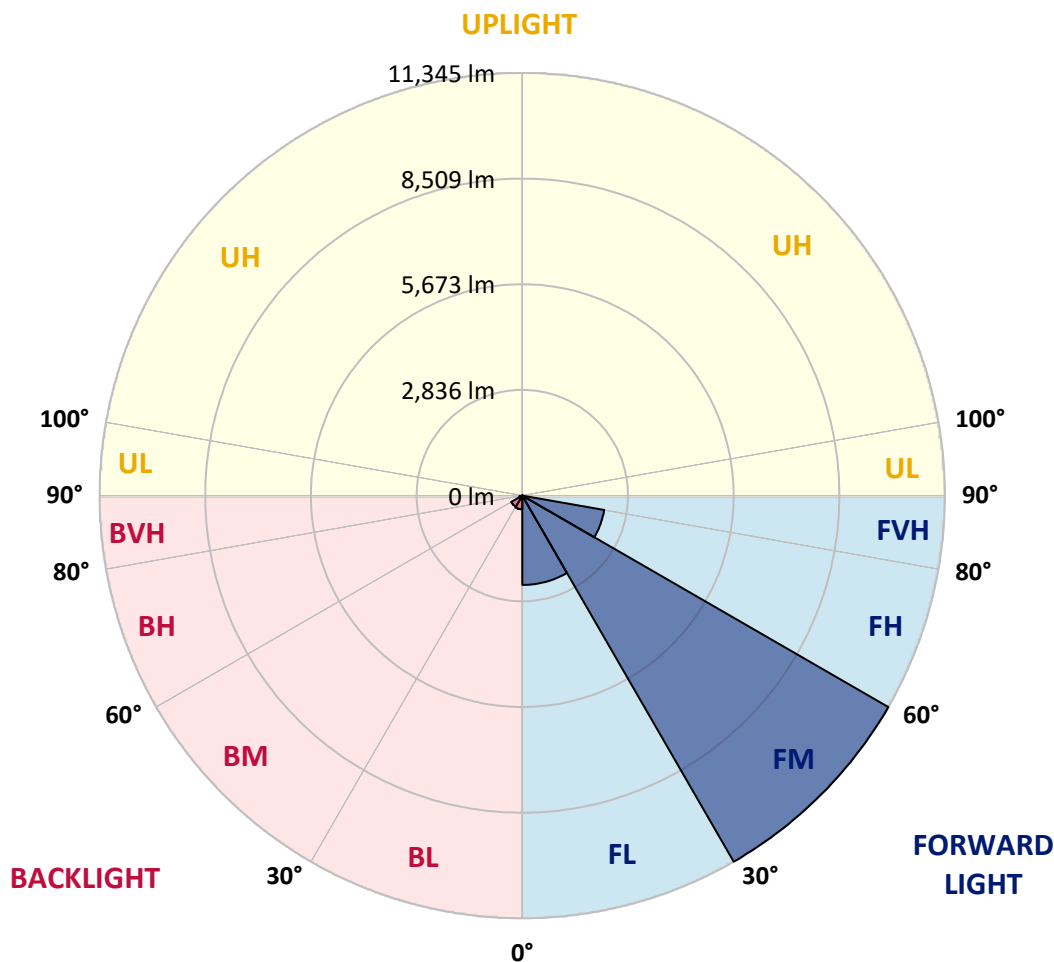
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2397.7	14.3			
FM (30°-60°)	11345.3	67.5			
FH (60°-80°)	2232.3	13.3			G2/5000
FVH (80°-90°)	26.5	0.2			G1/100
BL (0°-30°)	367.3	2.2	B1/500		
BM (30°-60°)	344.2	2.0	B1/1000		
BH (60°-80°)	79.5	0.5	B0/110		G0/110
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6
2.5°	4742.4	4709.5	4664.2	4629.1	4546.4	4427.4	4301.6	4301.6	4180.3	4011.5	3839.2
5°	5469.9	5448.4	5404.2	5313.5	5220.6	5054.0	4801.3	4757.1	4540.7	4234.7	3912.9
7.5°	5765.7	5775.9	5778.1	5754.3	5710.1	5545.8	5295.4	5264.8	4919.2	4509.0	4009.2
10°	5482.4	5532.2	5581.0	5679.5	5818.9	5858.6	5716.9	5685.2	5345.2	4786.6	4113.5
12.5°	5060.8	5088.0	5115.2	5270.5	5550.4	5871.0	6019.5	6018.4	5730.5	5063.1	4246.1
15°	4864.8	4888.6	4890.8	4960.0	5202.5	5669.3	6148.7	6165.7	6106.8	5404.2	4388.8
17.5°	4905.6	4924.8	4909.0	4926.0	5052.9	5447.2	6133.9	6190.6	6411.6	5731.7	4518.0
20°	5171.9	5209.3	5148.1	5100.5	5139.0	5388.3	6084.1	6163.4	6626.9	6051.2	4635.9
22.5°	5650.1	5670.5	5593.4	5463.1	5395.1	5511.8	6070.5	6148.7	6810.5	6313.0	4703.9
25°	6181.5	6174.7	6089.8	5943.6	5800.8	5761.1	6160.0	6230.3	6962.3	6548.7	4724.3
27.5°	6713.0	6733.4	6590.6	6409.3	6238.2	6135.1	6360.6	6412.7	7133.4	6817.3	4749.2
30°	7330.6	7297.7	7157.2	6949.8	6753.8	6609.9	6683.5	6698.3	7369.1	7173.1	4814.9
32.5°	8134.0	8043.4	7885.9	7523.2	7382.7	7139.1	7157.2	7175.3	7655.8	7525.5	4894.2
35°	9224.2	9219.6	8911.4	8423.0	8080.8	7778.2	7698.9	7713.6	8089.8	8049.0	5069.9
37.5°	10536.4	10554.5	10203.2	9711.4	9081.4	8600.9	8437.7	8440.0	8749.3	8772.0	5337.3
40°	11605.0	11652.6	11442.9	11110.9	10488.8	9737.5	9463.3	9438.3	9676.3	9648.0	5719.2
42.5°	12065.1	12109.2	12187.4	12303.0	11960.8	11340.9	10693.9	10727.9	10800.4	10602.1	6147.5
45°	11839.5	11909.8	12216.9	12930.8	13252.6	13044.1	12272.4	12153.4	11846.3	11639.0	6578.2
47.5°	10900.1	11071.2	11584.6	12773.3	13899.7	14604.5	14053.8	13896.3	12893.4	12395.9	6852.4
50°	9355.6	9365.8	10080.8	11600.4	13564.3	15589.3	15872.6	15754.7	13869.1	12820.9	6990.6
52.5°	6782.1	7005.4	7660.4	9420.2	12111.5	15439.7	17031.8	16983.1	14875.4	13038.5	7190.1
54°	5156.0	5199.1	5781.5	7527.8	10442.3	14618.1	17103.2	17114.5	15375.1	13169.9	7307.9
55°	4226.8	4123.7	4735.6	6412.7	9303.5	13891.8	16869.8	16924.2	15599.5	13237.9	7395.2
57.5°	2003.5	2004.6	2472.6	3382.6	5826.9	10786.8	15443.1	15635.7	15624.4	13354.6	7663.8
60°	1014.2	1021.0	1124.1	1561.5	2878.3	7170.8	12768.8	13227.7	14422.1	13371.6	7752.1
62.5°	709.4	701.4	684.4	751.3	1211.4	3644.3	9506.3	9905.2	12253.2	12724.6	7471.1
65°	607.4	590.4	542.8	532.6	611.9	1451.6	5920.9	6571.4	9355.6	11018.0	6671.1
67.5°	519.0	512.2	469.1	443.1	432.9	632.3	3055.1	3397.3	6394.6	7919.9	5052.9
70°	440.8	437.4	411.3	378.5	350.2	378.5	1133.2	1404.0	3563.9	4264.2	2384.2
72.5°	358.1	361.5	366.0	324.1	294.6	268.6	483.9	563.2	1491.3	1524.1	834.0
75°	313.9	310.5	310.5	282.2	245.9	199.4	266.3	286.7	456.7	423.8	193.8
77.5°	221.0	213.0	249.3	232.3	205.1	141.6	151.8	160.9	189.2	162.0	90.7
80°	153.0	153.0	159.8	208.5	184.7	103.1	92.9	99.7	112.2	96.3	52.1
82.5°	86.1	88.4	104.3	111.1	107.7	69.1	61.2	62.3	74.8	65.7	32.9
85°	10.2	17.0	60.1	58.9	44.2	30.6	34.0	35.1	46.5	40.8	19.3
87.5°	1.1	2.3	12.5	15.9	11.3	12.5	12.5	12.5	15.9	18.1	13.6
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°	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6
2.5°	3746.3	3660.2	3455.1	3217.1	3065.3	2818.2	2609.7	2459.0	2421.6	2349.1	2370.6
5°	3741.8	3562.7	3144.6	2702.7	2231.2	1880.0	1618.2	1412.0	1321.3	1261.2	1219.3
7.5°	3744.1	3464.2	2793.3	2089.6	1526.4	1181.9	939.4	813.6	729.8	694.6	699.2
10°	3750.9	3353.1	2385.4	1547.9	1030.1	763.8	615.3	555.3	526.9	522.4	521.3
12.5°	3766.7	3231.9	1995.5	1149.1	720.7	555.3	498.6	478.2	469.1	469.1	465.7
15°	3783.7	3098.1	1671.5	854.4	555.3	477.1	451.0	440.8	435.1	435.1	434.0
17.5°	3783.7	2944.0	1368.9	662.9	478.2	438.5	418.1	404.5	400.0	400.0	398.9
20°	3759.9	2765.0	1100.3	533.7	434.0	402.3	381.9	367.2	361.5	359.2	358.1
22.5°	3677.2	2525.9	876.0	458.9	397.7	370.6	344.5	327.5	323.0	320.7	321.8
25°	3529.9	2256.2	693.5	403.4	364.9	332.0	309.4	296.9	292.4	292.4	293.5
27.5°	3378.0	1974.0	549.6	361.5	325.2	295.8	277.6	269.7	268.6	272.0	273.1
30°	3237.5	1690.7	445.3	327.5	290.1	265.2	252.7	250.4	250.4	251.6	252.7
32.5°	3081.1	1442.5	372.8	298.0	261.8	240.2	233.4	233.4	235.7	235.7	238.0
35°	2982.6	1229.5	327.5	269.7	240.2	222.1	217.6	218.7	222.1	226.6	228.9
37.5°	2929.3	1059.5	298.0	247.0	219.8	207.4	202.8	205.1	213.0	221.0	222.1
40°	2933.8	931.5	274.2	227.8	204.0	190.4	187.0	193.8	201.7	209.6	210.8
42.5°	2983.7	836.3	251.6	205.1	190.4	171.1	170.0	176.8	180.2	188.1	189.2
45°	3042.6	767.2	227.8	181.3	165.4	148.4	149.6	155.2	159.8	172.2	174.5
47.5°	3060.7	719.6	200.6	154.1	136.0	130.3	131.4	134.8	143.9	155.2	156.4
50°	3081.1	690.1	174.5	130.3	115.6	114.5	115.6	117.9	123.5	128.1	126.9
52.5°	3168.4	689.0	153.0	113.3	98.6	100.9	102.0	100.9	96.3	89.5	87.3
54°	3250.0	692.4	142.8	105.4	90.7	94.1	92.9	87.3	75.9	69.1	65.7
55°	3315.7	695.8	137.1	99.7	86.1	87.3	88.4	77.1	62.3	55.5	53.3
57.5°	3444.9	687.8	123.5	87.3	75.9	71.4	70.3	51.0	34.0	29.5	27.2
60°	3380.3	621.0	112.2	74.8	64.6	57.8	47.6	28.3	17.0	12.5	12.5
62.5°	3126.5	526.9	99.7	61.2	53.3	44.2	24.9	15.9	7.9	4.5	3.4
65°	2796.7	443.1	89.5	48.7	41.9	28.3	13.6	10.2	3.4	0.0	0.0
67.5°	2079.4	328.6	75.9	38.5	31.7	18.1	9.1	5.7	1.1	0.0	0.0
70°	963.2	200.6	64.6	29.5	22.7	13.6	6.8	3.4	0.0	0.0	0.0
72.5°	276.5	125.8	53.3	21.5	15.9	11.3	5.7	2.3	1.1	0.0	0.0
75°	96.3	100.9	39.7	15.9	12.5	7.9	4.5	2.3	1.1	0.0	0.0
77.5°	57.8	81.6	24.9	13.6	10.2	6.8	4.5	2.3	1.1	1.1	0.0
80°	32.9	54.4	15.9	11.3	9.1	5.7	3.4	2.3	1.1	1.1	0.0
82.5°	18.1	26.1	12.5	10.2	7.9	5.7	3.4	2.3	1.1	1.1	1.1
85°	14.7	13.6	10.2	9.1	6.8	4.5	3.4	1.1	0.0	0.0	0.0
87.5°	11.3	9.1	9.1	9.1	6.8	4.5	3.4	1.1	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)