

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: P454833

Luminaire Tested: **GALN-SA6A-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454833
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-SA6A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA 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: 18581 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

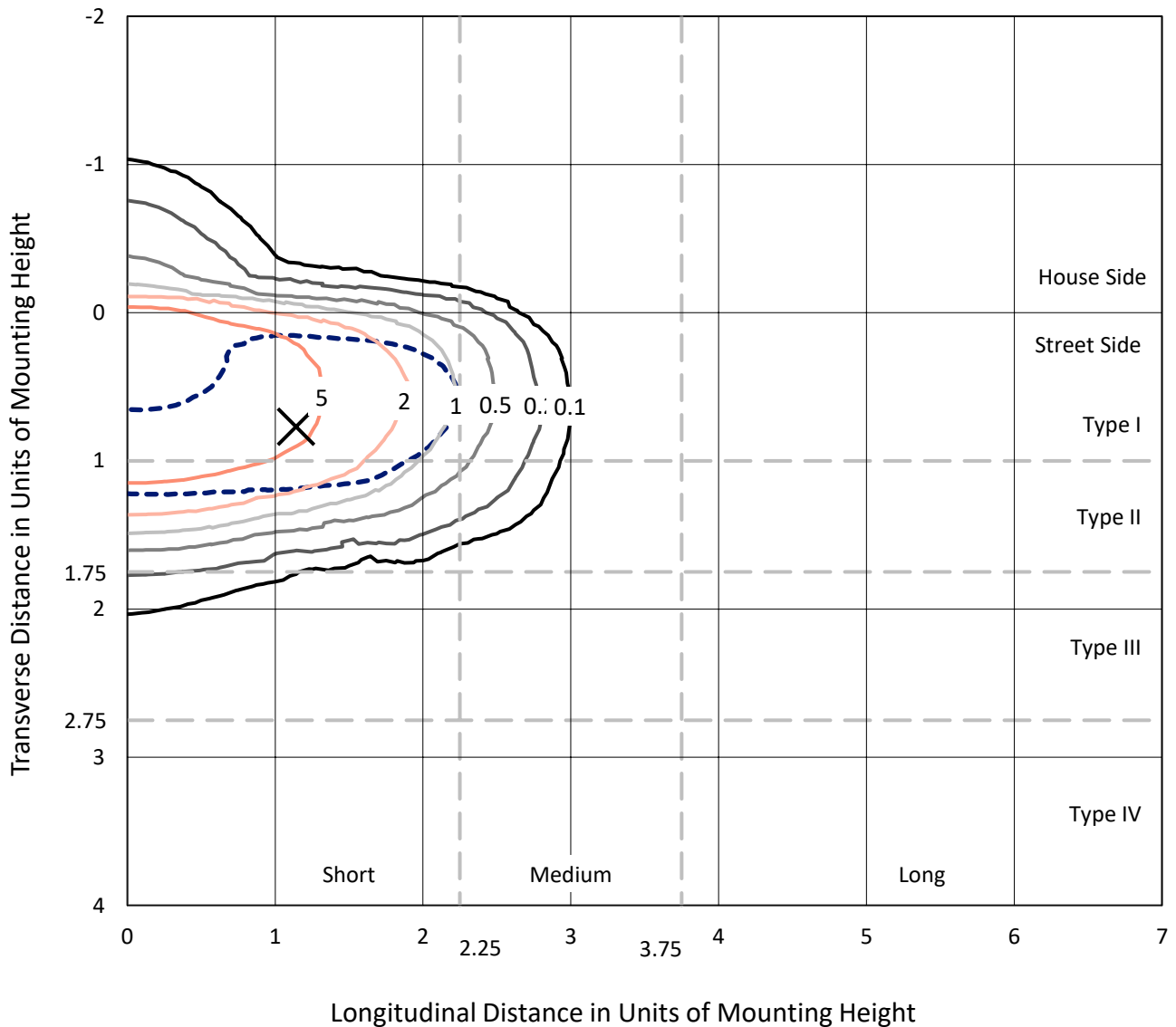
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

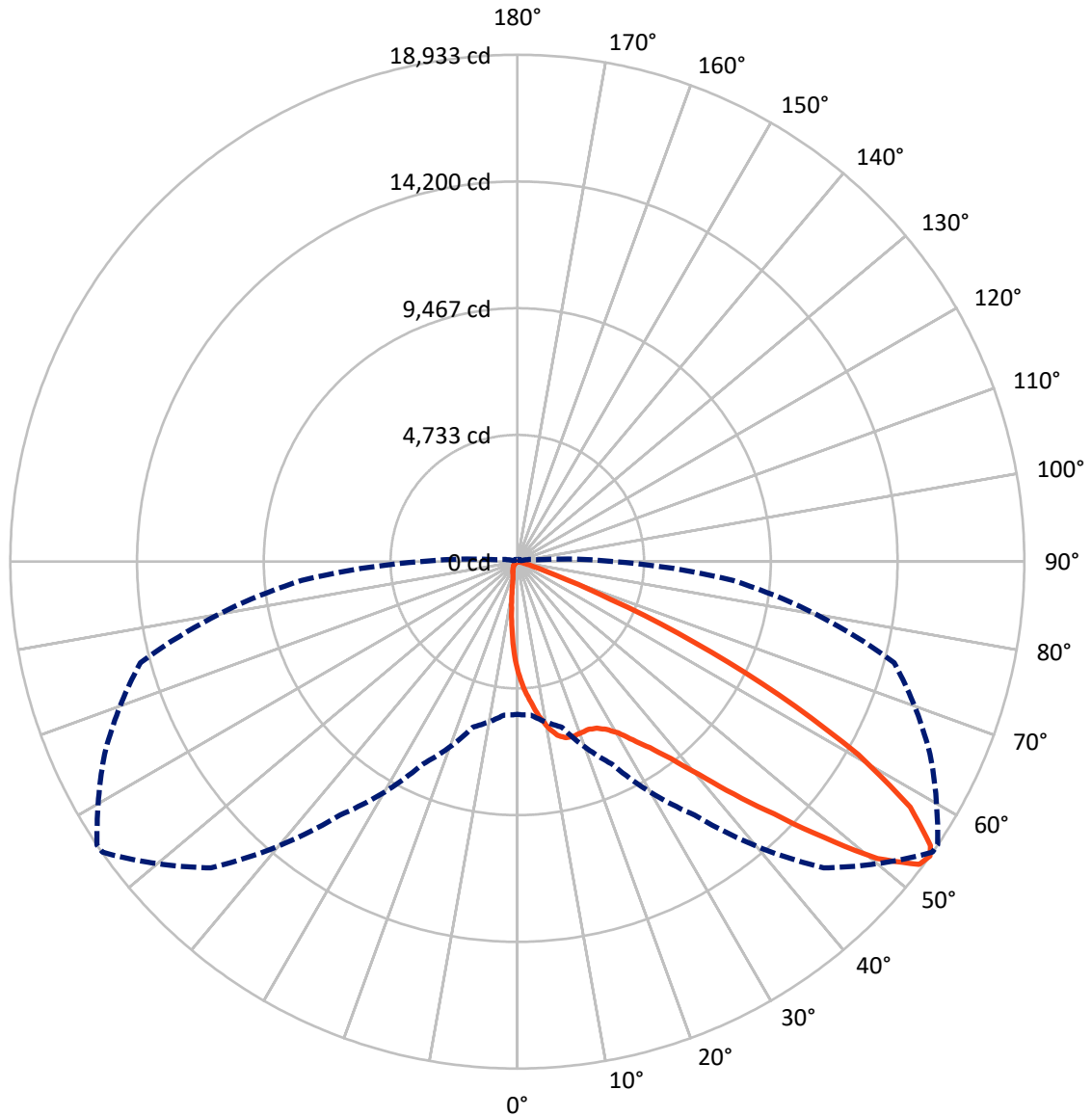
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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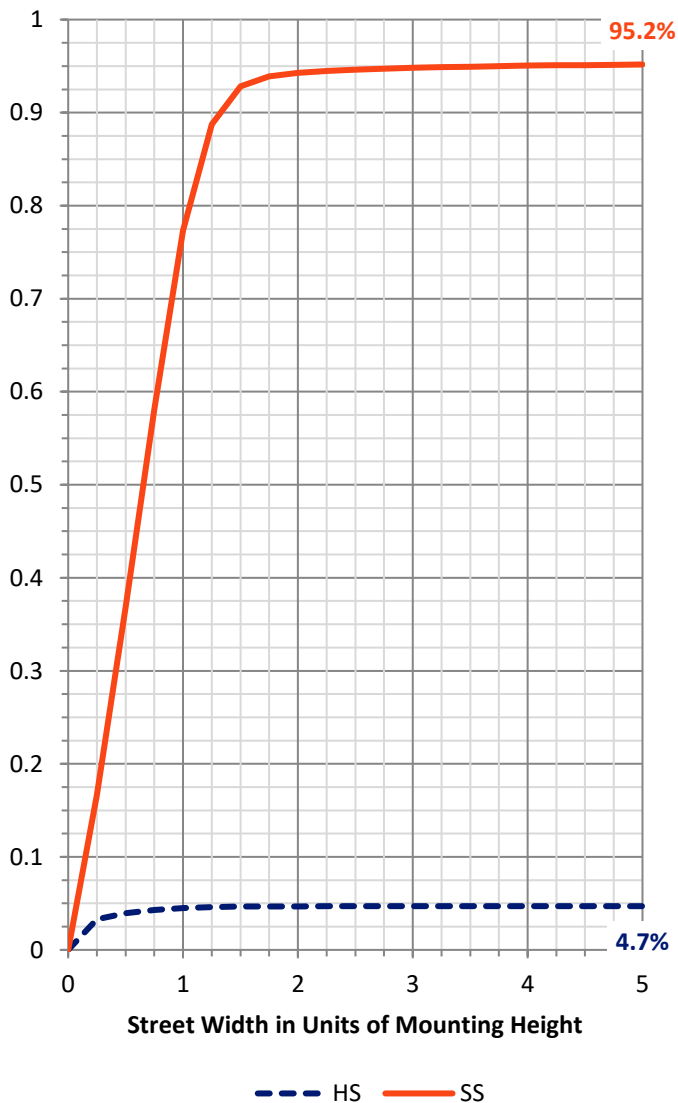
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	878.7	0.0	878.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	17702.4	0.0	17702.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	18581.0	0.0	18581.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.8	2.0
10°-20°	986.2	5.3
20°-30°	1707.9	9.2
30°-40°	2948.1	15.9
40°-50°	5017.9	27.0
50°-60°	4965.8	26.7
60°-70°	2266.5	12.2
70°-80°	291.1	1.6
80°-90°	32.8	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°	18581.0	100.0
0°-180°	18581.0	100.0



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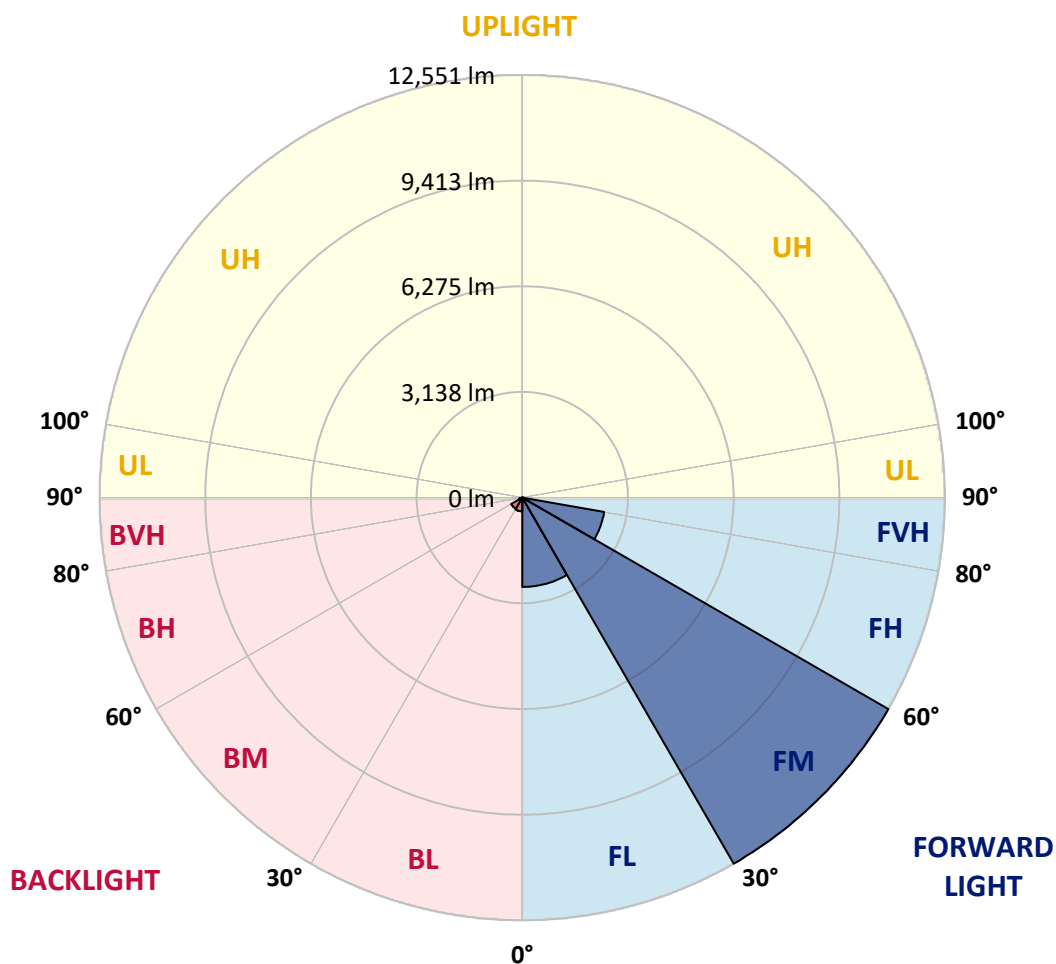
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2652.5	14.3			
FM	(30°-60°)	12551.0	67.5			
FH	(60°-80°)	2469.6	13.3			G2/5000
FVH	(80°-90°)	29.3	0.2			G1/100
BL	(0°-30°)	406.4	2.2	B1/500		
BM	(30°-60°)	380.8	2.0	B1/1000		
BH	(60°-80°)	88.0	0.5	B0/110		G0/110
BVH	(80°-90°)	3.5	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°	4128.2	4128.2	4128.2	4128.2	4128.2	4128.2	4128.2	4128.2	4128.2	4128.2	4128.2
2.5°	5246.4	5210.0	5159.9	5121.0	5029.5	4897.9	4758.7	4758.7	4624.6	4437.8	4247.3
5°	6051.2	6027.4	5978.5	5878.2	5775.4	5591.1	5311.6	5262.7	5023.2	4684.8	4328.7
7.5°	6378.4	6389.7	6392.2	6365.9	6317.0	6135.2	5858.2	5824.3	5442.0	4988.1	4435.3
10°	6065.0	6120.2	6174.1	6283.1	6437.3	6481.2	6324.5	6289.4	5913.3	5295.3	4550.6
12.5°	5598.7	5628.7	5658.8	5830.6	6140.2	6495.0	6659.2	6658.0	6339.5	5601.2	4697.3
15°	5381.8	5408.1	5410.6	5487.1	5755.4	6271.9	6802.1	6820.9	6755.7	5978.5	4855.3
17.5°	5426.9	5448.2	5430.7	5449.5	5589.9	6026.1	6785.8	6848.5	7093.0	6340.8	4998.2
20°	5721.5	5762.9	5695.2	5642.5	5685.2	5961.0	6730.7	6818.4	7331.2	6694.3	5128.6
22.5°	6250.5	6273.1	6187.9	6043.7	5968.5	6097.6	6715.6	6802.1	7534.2	6983.9	5203.8
25°	6838.5	6831.0	6736.9	6575.2	6417.3	6373.4	6814.7	6892.4	7702.2	7244.7	5226.3
27.5°	7426.4	7449.0	7291.0	7090.5	6901.2	6787.1	7036.6	7094.2	7891.5	7541.8	5253.9
30°	8109.7	8073.3	7917.9	7688.4	7471.6	7312.4	7393.8	7410.1	8152.3	7935.4	5326.6
32.5°	8998.5	8898.2	8723.9	8322.8	8167.3	7897.8	7917.9	7937.9	8469.4	8325.3	5414.4
35°	10204.5	10199.4	9858.5	9318.1	8939.5	8604.8	8517.1	8533.4	8949.6	8904.4	5608.7
37.5°	11656.1	11676.2	11287.6	10743.5	10046.5	9515.0	9334.4	9336.9	9679.2	9704.3	5904.5
40°	12838.3	12891.0	12659.0	12291.7	11603.5	10772.3	10469.0	10441.4	10704.6	10673.3	6327.0
42.5°	13347.3	13396.2	13482.7	13610.5	13231.9	12546.2	11830.4	11868.0	11948.2	11728.8	6800.9
45°	13097.8	13175.5	13515.3	14305.0	14661.1	14430.4	13576.7	13445.1	13105.3	12875.9	7277.3
47.5°	12058.6	12247.8	12815.7	14130.8	15376.9	16156.6	15547.4	15373.1	14263.7	13713.3	7580.6
50°	10349.9	10361.2	11152.2	12833.3	15005.8	17246.0	17559.4	17429.1	15343.0	14183.4	7733.6
52.5°	7502.9	7749.9	8474.5	10421.3	13398.7	17080.5	18841.9	18788.0	16456.2	14424.1	7954.2
54°	5704.0	5751.6	6396.0	8327.8	11552.1	16171.7	18920.9	18933.4	17009.1	14569.5	8084.6
55°	4676.0	4561.9	5238.9	7094.2	10292.2	15368.1	18662.6	18722.8	17257.3	14644.8	8181.1
57.5°	2216.4	2217.7	2735.4	3742.0	6446.1	11933.2	17084.3	17297.4	17284.9	14773.9	8478.2
60°	1122.0	1129.5	1243.6	1727.5	3184.2	7932.9	14125.8	14633.5	15954.8	14792.7	8576.0
62.5°	784.8	776.0	757.2	831.1	1340.1	4031.6	10516.6	10957.9	13555.4	14076.9	8265.1
65°	671.9	653.1	600.5	589.2	677.0	1605.9	6550.2	7269.7	10349.9	12188.9	7380.0
67.5°	574.2	566.6	519.0	490.2	478.9	699.5	3379.8	3758.3	7074.2	8761.5	5589.9
70°	487.7	483.9	455.1	418.7	387.4	418.7	1253.6	1553.2	3942.6	4717.4	2637.6
72.5°	396.1	399.9	404.9	358.5	325.9	297.1	535.3	623.0	1649.8	1686.1	922.7
75°	347.3	343.5	343.5	312.2	272.0	220.6	294.6	317.2	505.2	468.9	214.4
77.5°	244.5	235.7	275.8	257.0	226.9	156.7	168.0	178.0	209.4	179.3	100.3
80°	169.2	169.2	176.8	230.7	204.3	114.1	102.8	110.3	124.1	106.6	57.7
82.5°	95.3	97.8	115.3	122.9	119.1	76.5	67.7	68.9	82.7	72.7	36.4
85°	11.3	18.8	66.4	65.2	48.9	33.8	37.6	38.9	51.4	45.1	21.3
87.5°	1.3	2.5	13.8	17.6	12.5	13.8	13.8	13.8	17.6	20.1	15.0
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°	4128.2	4128.2	4128.2	4128.2	4128.2	4128.2	4128.2	4128.2	4128.2	4128.2	4128.2
2.5°	4144.5	4049.2	3822.3	3559.0	3391.0	3117.7	2887.1	2720.4	2679.0	2598.8	2622.6
5°	4139.4	3941.4	3478.8	2989.9	2468.4	2079.8	1790.2	1562.0	1461.7	1395.3	1348.9
7.5°	4142.0	3832.3	3090.2	2311.7	1688.6	1307.5	1039.2	900.1	807.3	768.5	773.5
10°	4149.5	3709.5	2638.9	1712.4	1139.5	844.9	680.7	614.3	582.9	577.9	576.7
12.5°	4167.0	3575.3	2207.6	1271.2	797.3	614.3	551.6	529.0	519.0	519.0	515.2
15°	4185.8	3427.4	1849.1	945.2	614.3	527.8	498.9	487.7	481.4	481.4	480.1
17.5°	4185.8	3256.9	1514.4	733.4	529.0	485.2	462.6	447.5	442.5	442.5	441.3
20°	4159.5	3058.8	1217.3	590.5	480.1	445.0	422.5	406.2	399.9	397.4	396.1
22.5°	4068.0	2794.3	969.0	507.7	440.0	409.9	381.1	362.3	357.3	354.8	356.0
25°	3905.0	2496.0	767.2	446.3	403.7	367.3	342.2	328.4	323.4	323.4	324.7
27.5°	3737.0	2183.8	608.0	399.9	359.8	327.2	307.1	298.4	297.1	300.9	302.1
30°	3581.6	1870.4	492.7	362.3	320.9	293.3	279.6	277.0	277.0	278.3	279.6
32.5°	3408.6	1595.9	412.4	329.7	289.6	265.8	258.2	258.2	260.8	260.8	263.3
35°	3299.5	1360.2	362.3	298.4	265.8	245.7	240.7	241.9	245.7	250.7	253.2
37.5°	3240.6	1172.1	329.7	273.3	243.2	229.4	224.4	226.9	235.7	244.5	245.7
40°	3245.6	1030.5	303.4	252.0	225.7	210.6	206.8	214.4	223.1	231.9	233.2
42.5°	3300.8	925.2	278.3	226.9	210.6	189.3	188.0	195.6	199.3	208.1	209.4
45°	3366.0	848.7	252.0	200.6	183.0	164.2	165.5	171.7	176.8	190.5	193.1
47.5°	3386.0	796.0	221.9	170.5	150.4	144.2	145.4	149.2	159.2	171.7	173.0
50°	3408.6	763.5	193.1	144.2	127.9	126.6	127.9	130.4	136.6	141.7	140.4
52.5°	3505.1	762.2	169.2	125.4	109.1	111.6	112.8	111.6	106.6	99.0	96.5
54°	3595.4	766.0	158.0	116.6	100.3	104.1	102.8	96.5	84.0	76.5	72.7
55°	3668.1	769.7	151.7	110.3	95.3	96.5	97.8	85.2	68.9	61.4	58.9
57.5°	3811.0	760.9	136.6	96.5	84.0	79.0	77.7	56.4	37.6	32.6	30.1
60°	3739.5	687.0	124.1	82.7	71.5	63.9	52.7	31.3	18.8	13.8	13.8
62.5°	3458.7	582.9	110.3	67.7	58.9	48.9	27.6	17.6	8.8	5.0	3.8
65°	3093.9	490.2	99.0	53.9	46.4	31.3	15.0	11.3	3.8	0.0	0.0
67.5°	2300.4	363.5	84.0	42.6	35.1	20.1	10.0	6.3	1.3	0.0	0.0
70°	1065.6	221.9	71.5	32.6	25.1	15.0	7.5	3.8	0.0	0.0	0.0
72.5°	305.9	139.2	58.9	23.8	17.6	12.5	6.3	2.5	1.3	0.0	0.0
75°	106.6	111.6	43.9	17.6	13.8	8.8	5.0	2.5	1.3	0.0	0.0
77.5°	63.9	90.3	27.6	15.0	11.3	7.5	5.0	2.5	1.3	1.3	0.0
80°	36.4	60.2	17.6	12.5	10.0	6.3	3.8	2.5	1.3	1.3	0.0
82.5°	20.1	28.8	13.8	11.3	8.8	6.3	3.8	2.5	1.3	1.3	1.3
85°	16.3	15.0	11.3	10.0	7.5	5.0	3.8	1.3	0.0	0.0	0.0
87.5°	12.5	10.0	10.0	10.0	7.5	5.0	3.8	1.3	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)