

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: P383609

Luminaire Tested: **GLEON-SA9A-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 31771.4 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

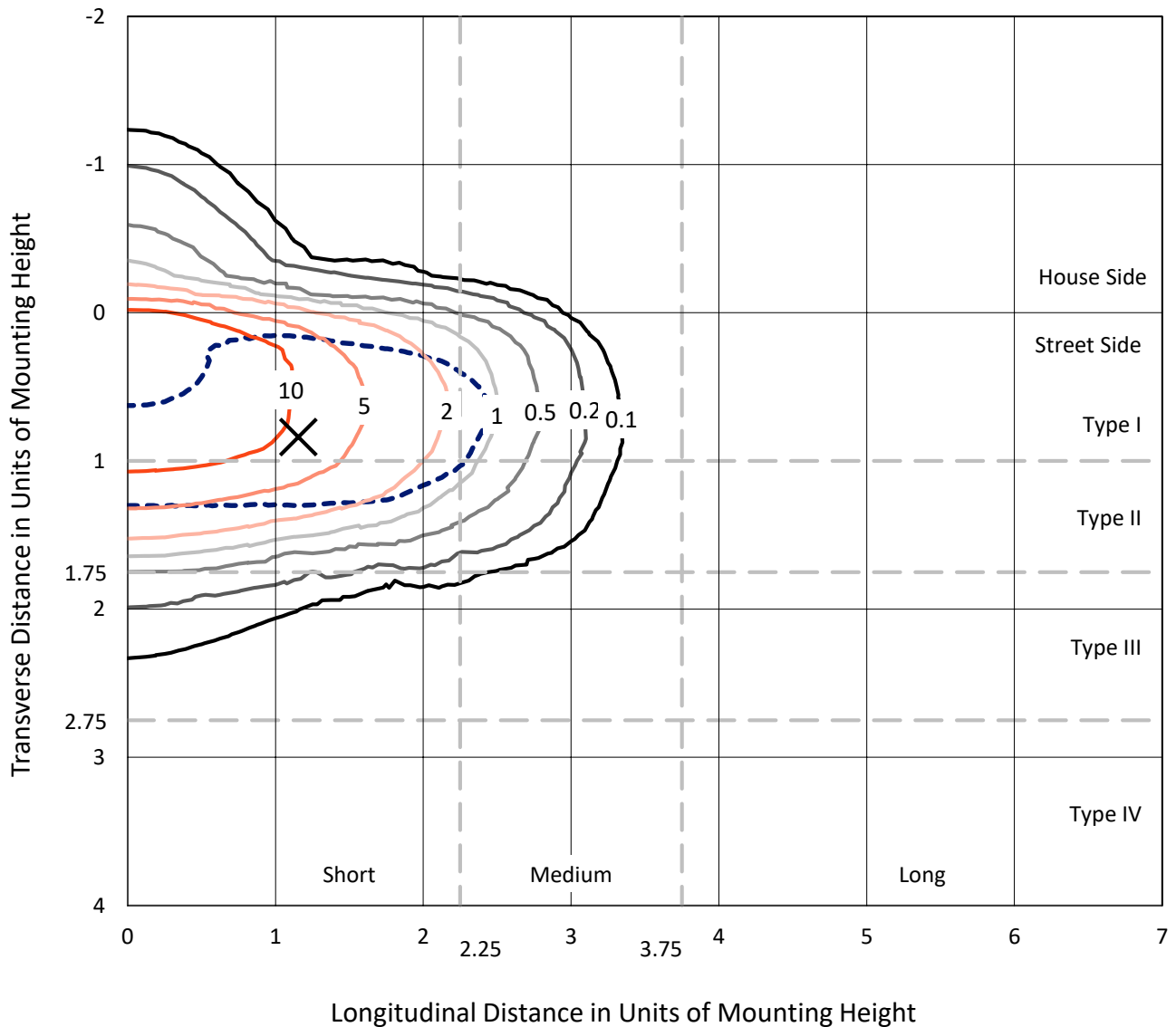
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

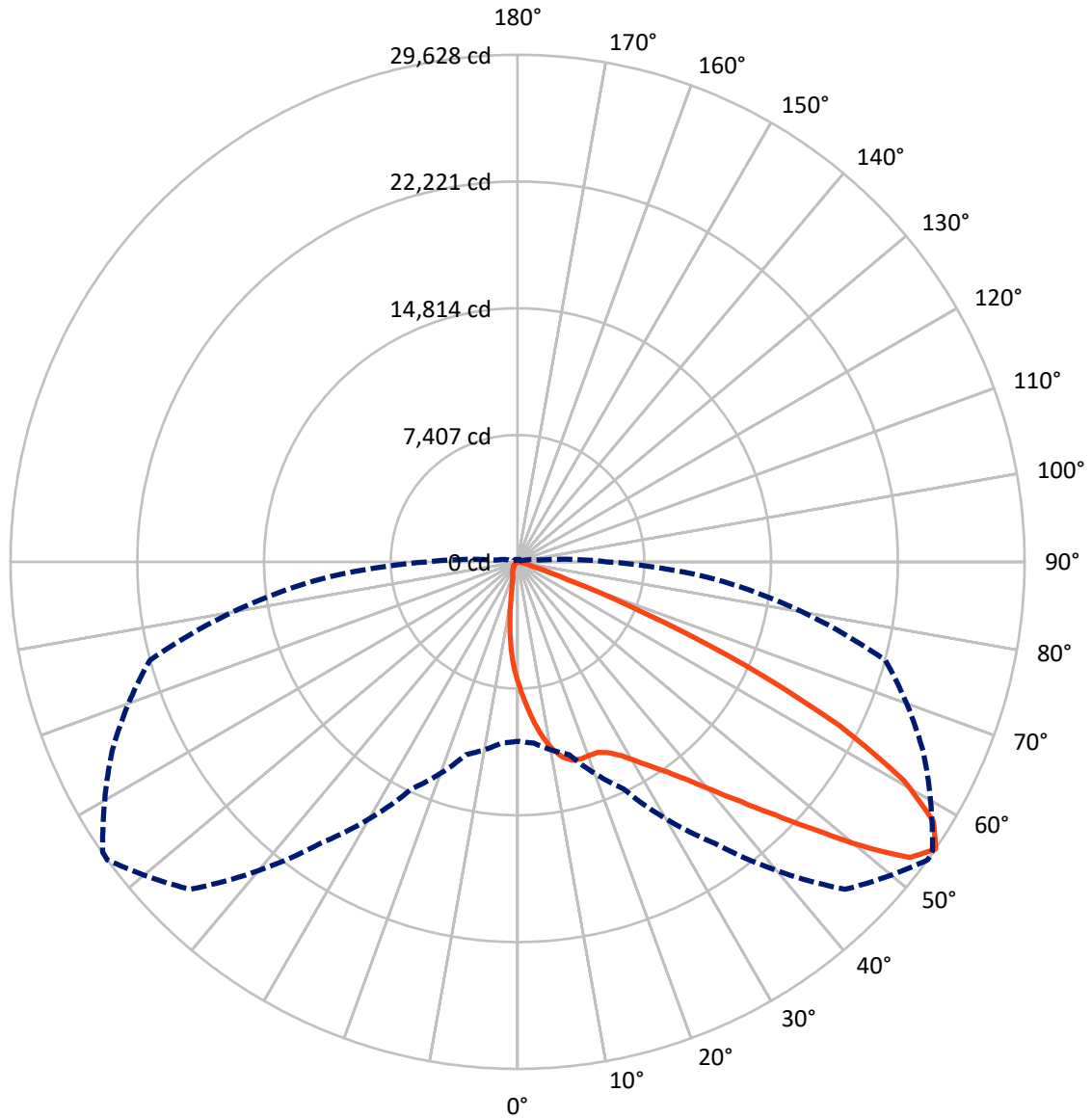
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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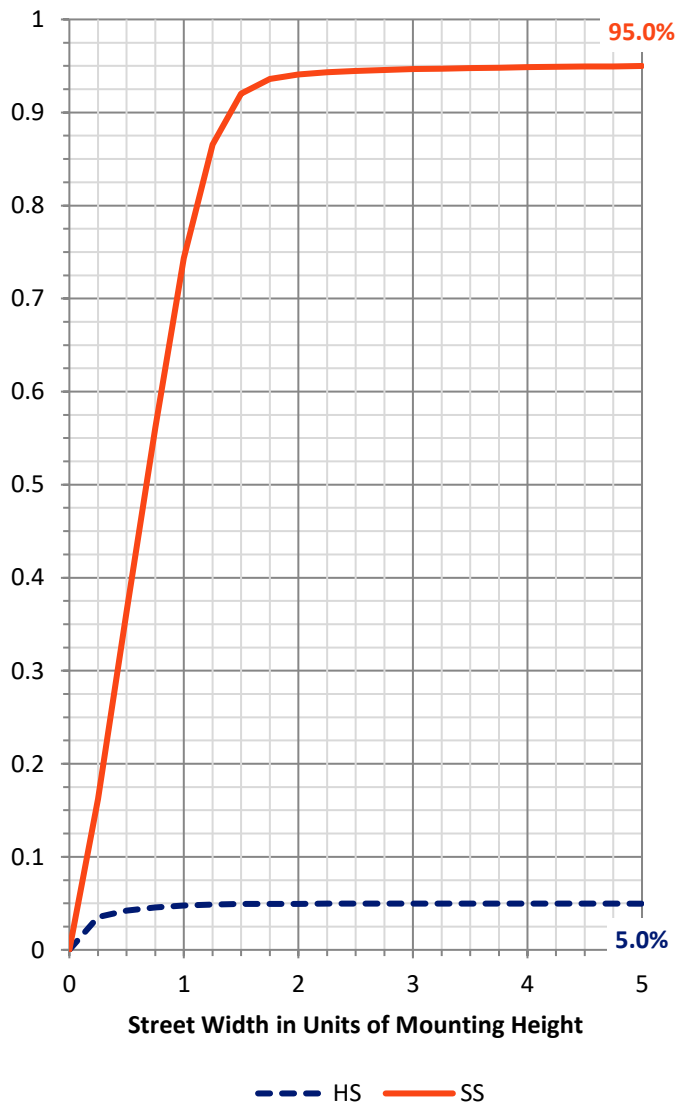
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1585.2	0.0	1585.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	30186.2	0.0	30186.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	31771.4	0.0	31771.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.3	2.1
10°-20°	1797.1	5.7
20°-30°	3068.2	9.7
30°-40°	4923.9	15.5
40°-50°	7868.4	24.8
50°-60°	8431.2	26.5
60°-70°	4328.8	13.6
70°-80°	655.7	2.1
80°-90°	42.7	0.1
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°	31771.4	100.0
0°-180°	31771.4	100.0

Coefficient of Utilization



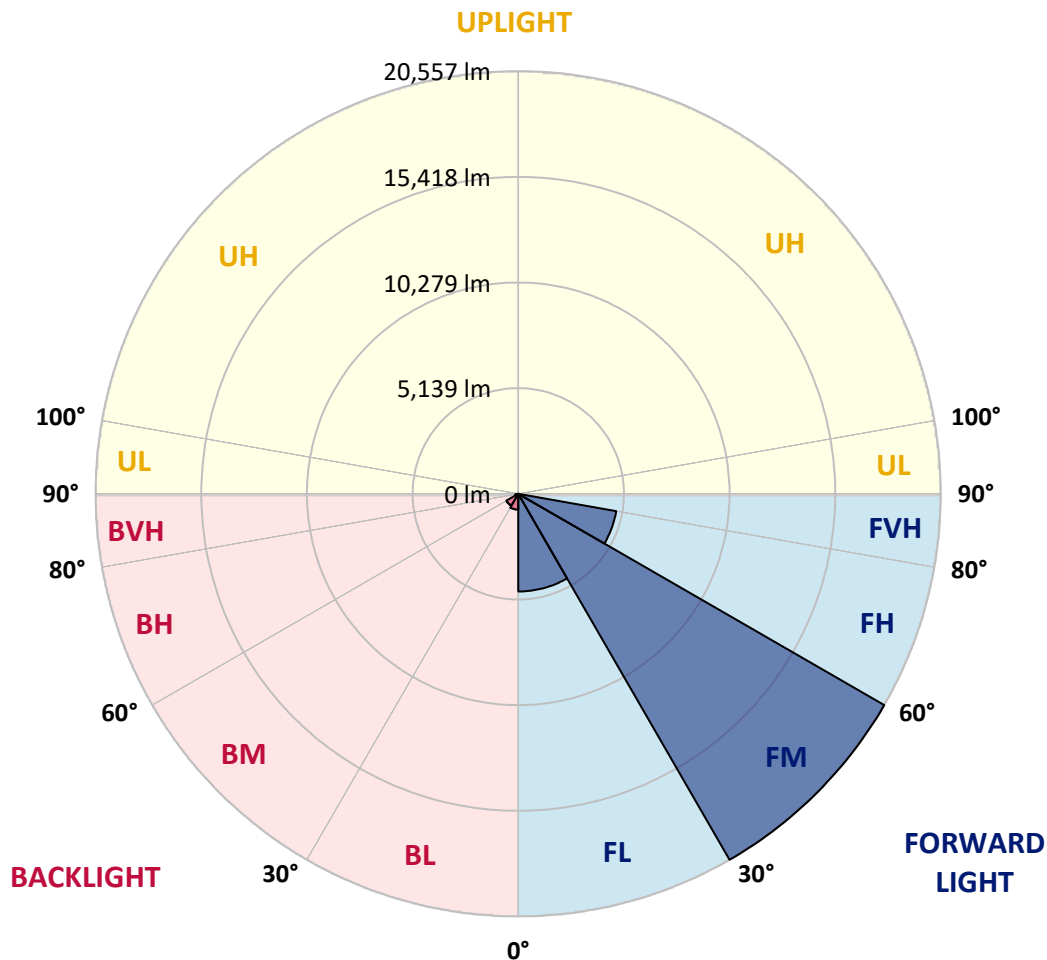
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4749.3	14.9			
FM (30°-60°)	20557.5	64.7			
FH (60°-80°)	4838.5	15.2			G2/5000
FVH (80°-90°)	41.0	0.1			G1/100
BL (0°-30°)	771.2	2.4	B2/1000		
BM (30°-60°)	666.1	2.1	B1/1000		
BH (60°-80°)	146.1	0.5	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7115.5	7115.5	7115.5	7115.5	7115.5	7115.5	7115.5	7115.5	7115.5	7115.5	7115.5
2.5°	8929.3	8796.3	8800.4	8740.1	8519.1	8346.3	8166.5	8123.9	7844.1	7550.5	7267.8
5°	10472.9	10375.5	10352.2	10235.6	9928.2	9603.0	9254.6	9173.6	8626.1	8025.2	7433.8
7.5°	11266.0	11267.3	11248.2	11205.6	11013.5	10698.0	10272.6	10187.6	9442.5	8541.1	7606.7
10°	11035.5	11087.7	11194.7	11336.0	11482.8	11443.0	11123.3	11046.5	10237.0	9087.2	7798.8
12.5°	10497.6	10504.5	10623.8	10855.8	11278.3	11711.9	11717.4	11691.3	10995.7	9657.9	8010.1
15°	10230.1	10256.2	10300.0	10449.6	10850.3	11544.5	12041.2	12078.3	11691.3	10264.4	8235.1
17.5°	10405.8	10442.7	10405.8	10423.6	10655.4	11279.7	12097.4	12192.1	12299.1	10864.0	8447.7
20°	10881.8	10916.2	10850.3	10777.5	10822.8	11202.9	12057.7	12185.3	12775.2	11396.4	8626.1
22.5°	11524.0	11537.7	11437.5	11318.1	11285.2	11463.5	12090.6	12222.3	13156.7	11878.0	8738.7
25°	12230.6	12242.9	12118.0	11980.8	11902.7	11975.3	12360.9	12459.7	13492.8	12337.6	8803.1
27.5°	13000.3	13011.3	12854.8	12686.1	12595.5	12598.2	12806.8	12912.5	13851.0	12861.7	8855.3
30°	13813.9	13808.4	13664.3	13429.7	13314.5	13311.7	13448.9	13556.0	14369.6	13534.0	8926.6
32.5°	14727.7	14716.8	14512.3	14221.4	14091.1	14110.2	14232.4	14294.1	15013.1	14250.3	9054.3
35°	15931.0	15899.5	15590.8	15229.9	14989.8	14982.9	15085.9	15135.2	15833.6	15117.3	9266.9
37.5°	17492.4	17463.6	17045.1	16521.0	16183.5	16057.3	16179.3	16242.5	17003.9	16230.1	9608.5
40°	19031.9	19003.0	18754.7	18274.4	17754.5	17451.2	17547.3	17614.5	18465.2	17580.3	10039.4
42.5°	20093.9	20118.5	20205.0	20244.8	19757.7	19121.0	19164.9	19235.0	20000.5	19023.6	10532.0
45°	20373.8	20427.3	20915.7	21874.8	22057.3	21560.6	21101.0	21139.3	21560.6	20467.0	11024.5
47.5°	19532.7	19631.4	20574.1	22357.7	23902.7	24254.0	23384.1	23333.3	23057.5	21634.6	11374.4
50°	17621.3	17712.0	18933.1	21571.6	24462.4	26825.2	26119.9	25970.3	24370.6	22333.0	11497.9
52.5°	14855.3	14965.0	15957.0	19096.4	23407.4	27972.2	28710.4	28585.6	25333.7	22387.9	11518.5
55°	10490.8	10623.8	11673.5	14635.8	20063.7	27059.8	29628.3	29591.3	26133.6	22242.5	11562.4
57.5°	5895.8	5991.8	7123.7	9382.2	14694.8	23569.3	28669.2	28914.9	26616.6	21990.0	11628.2
60°	2617.9	2643.9	3229.9	4670.5	8602.8	18012.4	25923.8	26338.1	26202.3	21652.5	11739.4
62.5°	1451.6	1429.6	1429.6	1941.4	3738.9	11150.7	21139.3	21824.0	24433.7	21253.3	11744.9
65°	1137.4	1116.8	1057.9	1066.1	1424.2	4949.0	14638.5	15855.5	21074.9	20082.9	11349.7
67.5°	964.5	946.7	887.8	864.4	885.0	1632.7	8043.0	9306.7	15991.4	17041.0	9830.8
70°	815.0	802.6	772.4	743.7	691.5	806.8	3077.6	3936.4	9854.2	11336.0	6710.8
72.5°	655.8	650.3	661.3	636.6	573.6	537.9	1052.4	1274.6	4426.2	5058.8	2764.7
75°	565.3	562.6	568.1	543.4	472.0	374.6	535.1	584.5	1248.6	1237.6	559.8
77.5°	367.7	371.9	470.6	459.6	406.2	249.7	277.1	299.1	378.7	284.0	170.1
80°	234.7	231.9	238.8	381.5	365.0	190.7	138.6	145.4	182.5	139.9	82.3
82.5°	142.7	139.9	156.4	178.4	183.9	133.1	85.1	86.4	113.8	90.5	43.9
85°	12.4	16.5	94.6	87.8	63.2	41.2	41.2	43.9	60.4	53.5	24.7
87.5°	0.0	0.0	16.5	24.7	13.7	15.1	15.1	16.5	23.3	23.3	12.4
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°	7115.5	7115.5	7115.5	7115.5	7115.5	7115.5	7115.5	7115.5	7115.5	7115.5	7115.5
2.5°	7121.0	6978.3	6690.2	6413.1	6178.4	5952.0	5694.1	5438.8	5319.5	5271.4	5222.1
5°	7133.3	6839.7	6245.7	5647.4	5027.2	4468.8	3992.7	3504.2	3260.0	3153.0	3103.6
7.5°	7149.8	6702.5	5742.1	4737.8	3738.9	2981.5	2320.1	1894.9	1711.0	1682.2	1610.8
10°	7152.5	6536.5	5157.6	3733.4	2506.8	1797.4	1383.1	1163.5	1082.6	1068.9	1045.5
12.5°	7158.0	6340.3	4508.6	2764.7	1671.2	1201.9	1000.2	927.5	905.6	904.2	904.2
15°	7174.5	6134.5	3834.9	1992.2	1200.6	952.2	878.1	849.3	841.1	845.2	843.8
17.5°	7174.5	5891.7	3173.6	1484.6	970.0	856.2	815.0	795.8	793.0	797.1	798.5
20°	7122.3	5596.6	2567.2	1155.3	860.3	794.4	757.3	739.6	732.7	735.5	736.8
22.5°	6997.5	5234.5	2073.2	956.3	787.5	738.2	698.4	670.9	660.0	661.3	661.3
25°	6802.7	4804.9	1621.7	827.3	728.6	677.8	631.1	599.6	592.7	591.3	594.1
27.5°	6553.0	4330.2	1291.1	728.6	658.6	610.5	564.0	537.9	532.4	533.8	535.1
30°	6307.3	3837.7	1018.1	644.9	580.4	535.1	499.4	487.1	487.1	491.2	492.6
32.5°	6082.4	3364.3	805.4	572.2	510.4	469.2	448.6	447.3	454.1	456.9	458.2
35°	5888.9	2926.6	666.8	515.9	455.5	419.8	413.0	418.5	426.7	432.2	433.5
37.5°	5751.7	2535.6	583.1	469.2	413.0	384.2	382.8	393.8	404.8	417.1	419.8
40°	5694.1	2204.9	525.5	428.0	378.7	356.7	352.6	367.7	388.3	406.2	408.9
42.5°	5646.0	1934.6	476.1	388.3	351.3	319.7	318.3	337.5	362.2	380.1	384.2
45°	5604.8	1717.9	430.8	345.8	315.6	274.4	278.5	303.2	322.4	341.6	345.8
47.5°	5519.8	1539.5	381.5	300.5	260.6	234.7	242.9	264.8	279.9	308.7	312.8
50°	5367.5	1394.0	330.7	245.6	212.7	203.1	215.4	230.5	249.7	274.4	277.1
52.5°	5264.6	1284.2	286.7	205.8	175.6	178.4	190.7	196.2	207.2	216.8	214.1
55°	5205.6	1223.9	251.1	178.4	149.5	157.8	160.5	153.7	148.2	138.6	134.4
57.5°	5198.8	1169.0	223.7	155.0	131.7	135.8	126.2	102.9	83.7	72.8	70.0
60°	5187.8	1101.7	201.7	130.3	116.6	111.1	90.5	56.3	39.8	37.1	37.1
62.5°	5068.4	997.5	185.2	109.7	98.7	83.7	52.2	26.1	22.0	23.3	23.3
65°	4688.3	852.1	168.8	89.1	78.2	60.4	26.1	15.1	8.2	9.6	9.6
67.5°	3985.8	679.2	150.9	68.6	59.0	38.4	15.1	6.9	0.0	0.0	0.0
70°	2668.7	421.2	127.6	48.1	38.4	23.3	11.0	1.4	0.0	0.0	0.0
72.5°	1023.6	227.8	102.9	28.8	24.7	16.5	6.9	0.0	0.0	0.0	0.0
75°	230.5	149.5	71.4	20.6	17.8	11.0	2.7	0.0	0.0	0.0	0.0
77.5°	87.8	108.4	41.2	13.7	12.4	6.9	0.0	0.0	0.0	0.0	0.0
80°	42.6	64.5	19.2	8.2	6.9	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	22.0	24.7	8.2	4.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.4	12.4	4.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	4.1	1.4	1.4	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)