

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: P193367

Luminaire Tested: **GLEON-AF-09-LED-E1-5MQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-5MQ-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50040 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 575
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: 25 FT

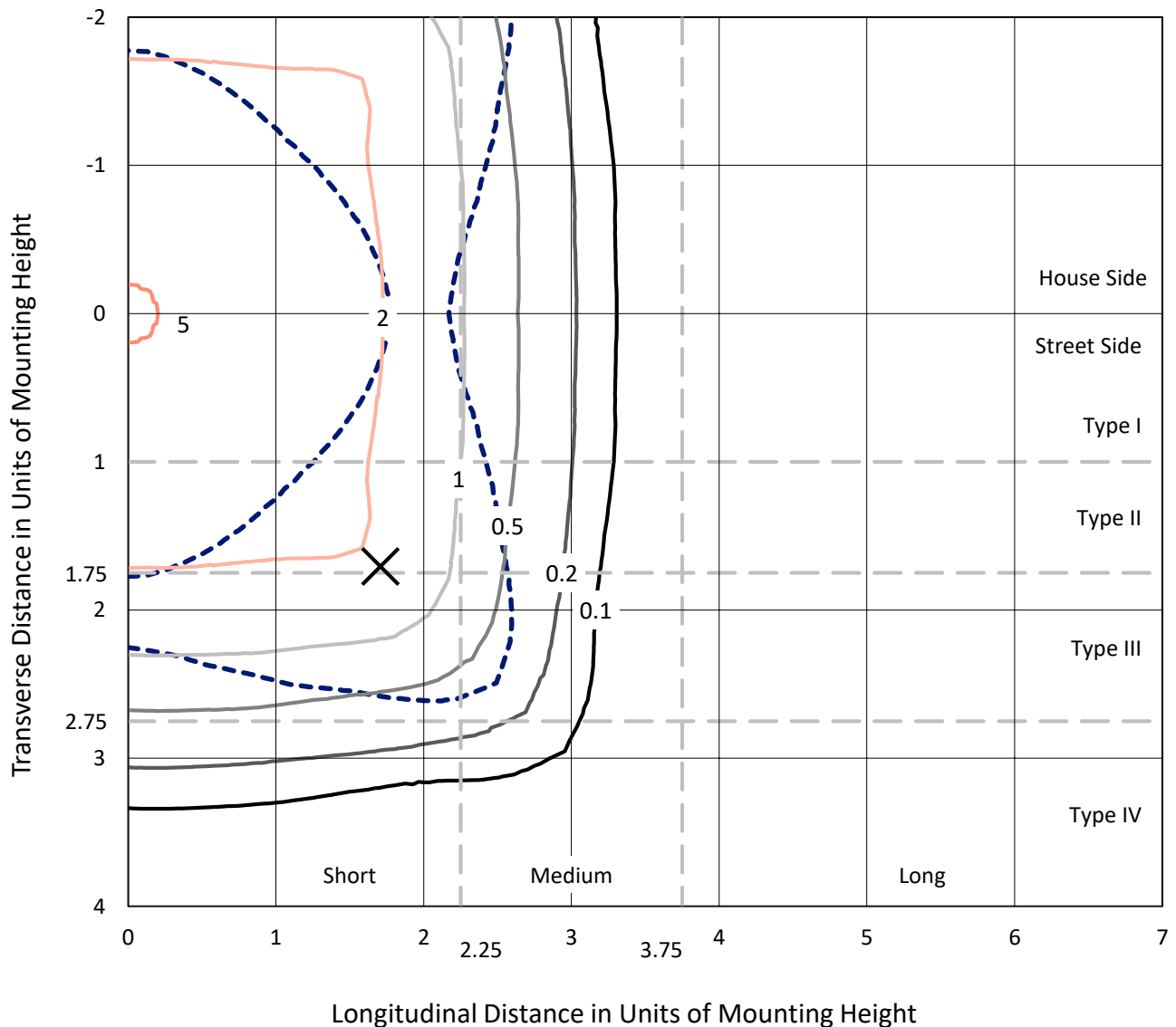


REPORT NUMBER: P193367

CATALOG NUMBER: GLEON-AF-09-LED-E1-5MQ-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

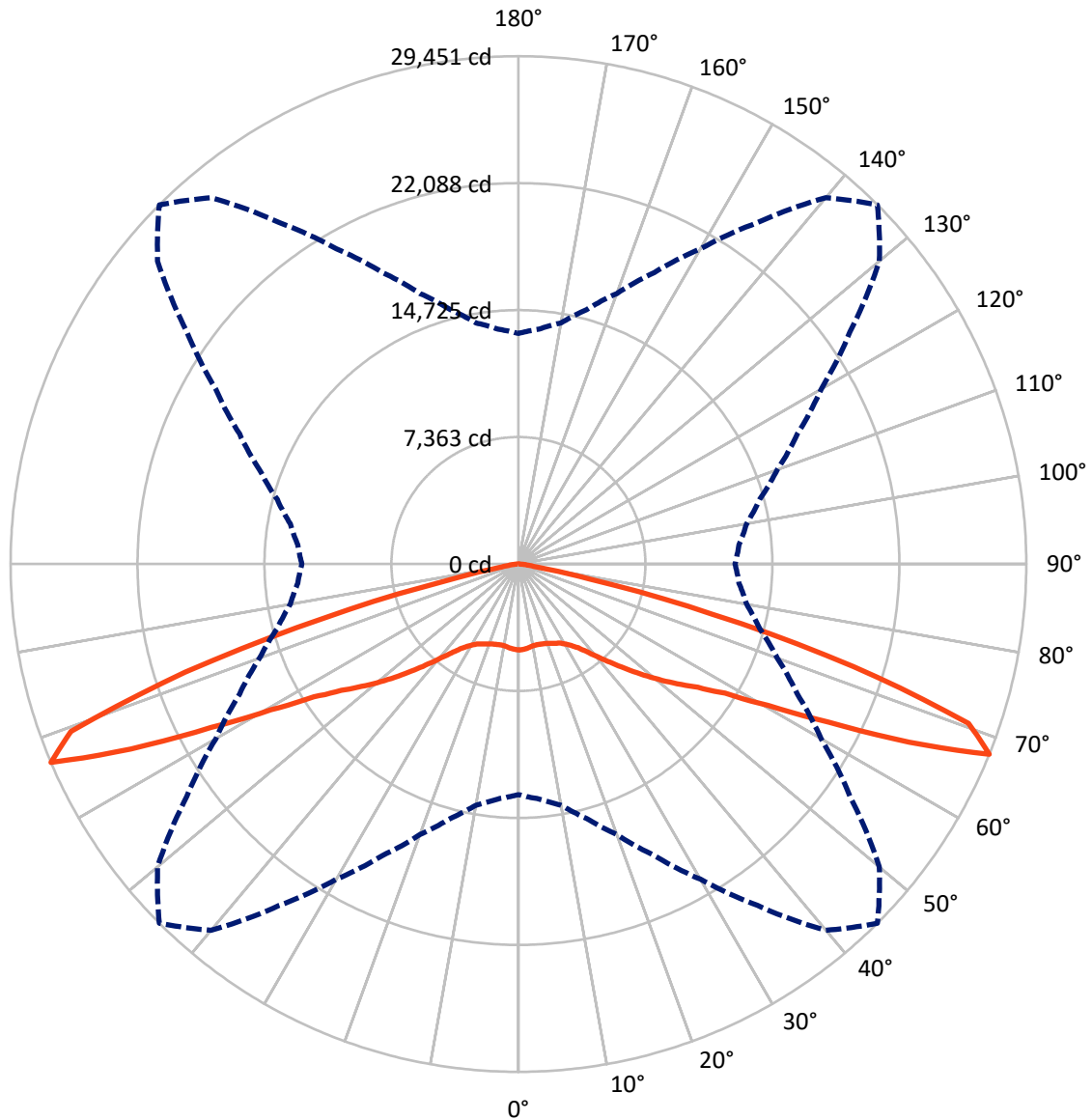
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P193367
CATALOG NUMBER: GLEON-AF-09-LED-E1-5MQ-8030-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P193367

CATALOG NUMBER: GLEON-AF-09-LED-E1-5MQ-8030-1200

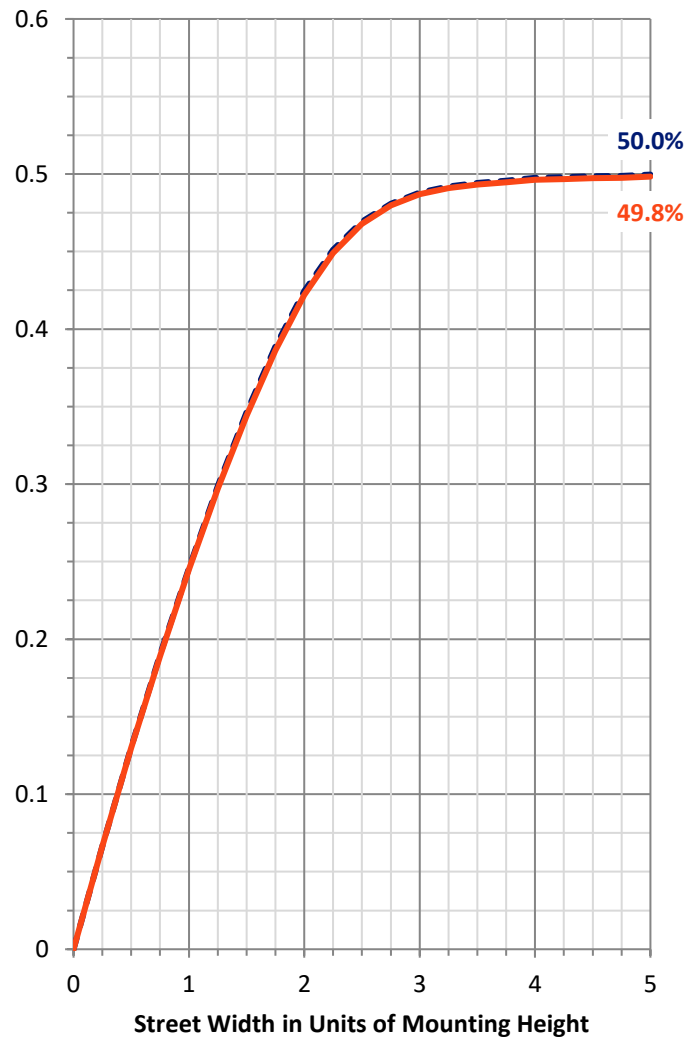
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25020.0	0.0	25020.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25020.0	0.0	25020.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	50040.0	0.0	50040.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.7	0.9
10°-20°	1354.4	2.7
20°-30°	2302.4	4.6
30°-40°	3763.7	7.5
40°-50°	6718.9	13.4
50°-60°	11328.3	22.6
60°-70°	17579.8	35.1
70°-80°	6176.8	12.3
80°-90°	349.1	0.7
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°	50040.0	100.0
0°-180°	50040.0	100.0



--- HS — SS

REPORT NUMBER: P193367

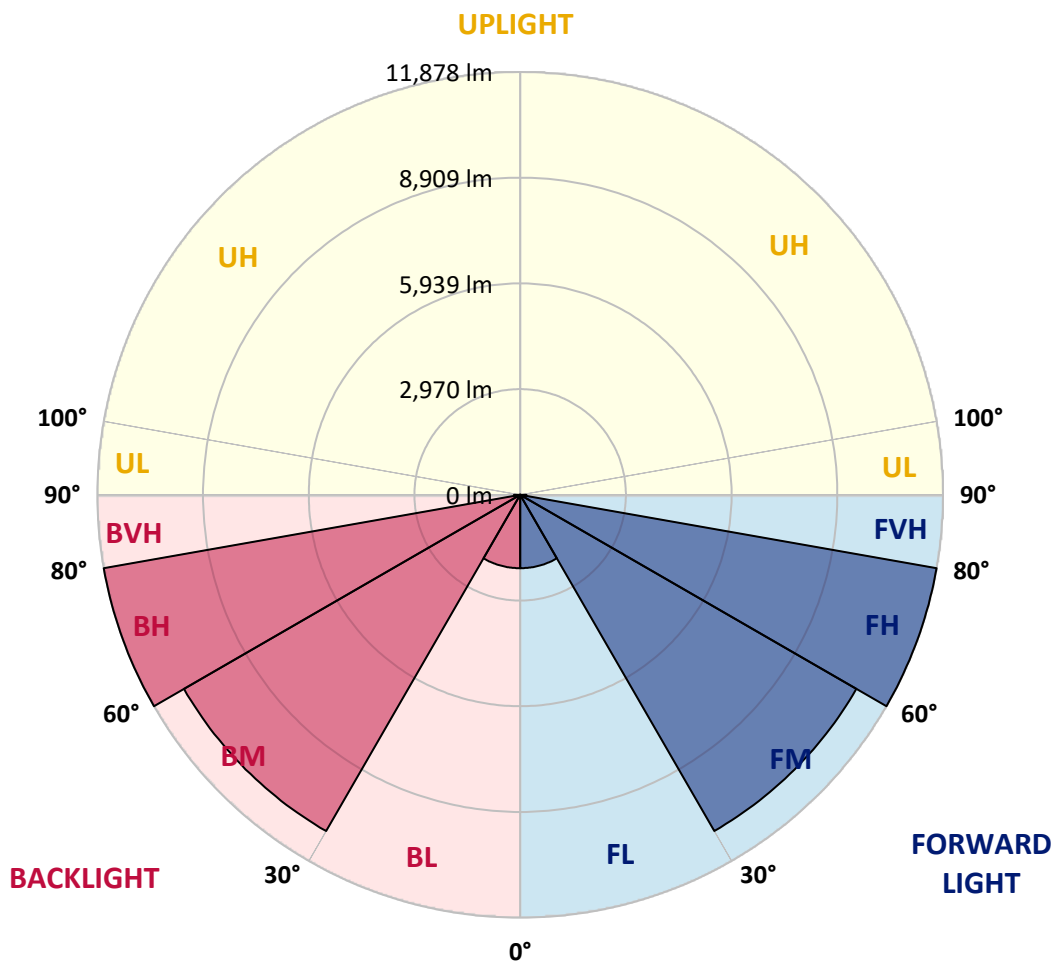
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2061.7	4.1			
FM	(30°-60°)	10905.4	21.8			
FH	(60°-80°)	11878.3	23.7			G4/12000
FVH	(80°-90°)	174.5	0.3			G2/225
BL	(0°-30°)	2061.7	4.1	B3/2500		
BM	(30°-60°)	10905.4	21.8	B5		
BH	(60°-80°)	11878.3	23.7	B5		G4/12000
BVH	(80°-90°)	174.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





REPORT NUMBER: P193367

CATALOG NUMBER: GLEON-AF-09-LED-E1-5MQ-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7
2.5°	4968.3	4972.9	4972.9	4972.9	4970.6	4970.6	4966.0	4970.6	4968.3	4961.4	4963.7
5°	4926.9	4931.5	4931.5	4929.2	4936.1	4933.8	4926.9	4931.5	4929.2	4924.6	4926.9
7.5°	4867.0	4873.9	4873.9	4871.6	4878.5	4876.2	4871.6	4873.9	4873.9	4867.0	4867.0
10°	4800.3	4804.9	4804.9	4802.6	4814.1	4814.1	4811.8	4818.7	4821.0	4814.1	4809.5
12.5°	4738.2	4745.1	4745.1	4754.3	4765.8	4770.4	4781.9	4791.1	4800.3	4798.0	4788.8
15°	4701.3	4706.0	4715.2	4726.7	4745.1	4761.2	4779.6	4800.3	4818.7	4823.3	4809.5
17.5°	4678.3	4685.2	4699.0	4715.2	4740.5	4768.1	4795.7	4823.3	4848.6	4857.8	4841.7
20°	4671.4	4676.0	4689.8	4717.5	4752.0	4793.4	4832.5	4864.7	4899.3	4910.8	4899.3
22.5°	4685.2	4694.4	4710.6	4742.8	4788.8	4841.7	4887.7	4931.5	4975.2	4995.9	4979.8
25°	4747.4	4756.6	4777.3	4818.7	4869.3	4924.6	4977.5	5028.1	5067.2	5087.9	5076.4
27.5°	4862.4	4873.9	4899.3	4940.7	4995.9	5055.7	5113.3	5154.7	5186.9	5193.8	5180.0
30°	5035.0	5060.3	5090.3	5136.3	5200.7	5251.3	5308.9	5345.7	5384.8	5384.8	5373.3
32.5°	5304.3	5329.6	5361.8	5405.5	5456.1	5511.4	5562.0	5594.2	5635.6	5637.9	5610.3
35°	5707.0	5718.5	5746.1	5773.7	5819.7	5868.1	5911.8	5932.5	5967.0	5969.3	5944.0
37.5°	6238.5	6240.9	6259.3	6268.5	6309.9	6362.8	6404.2	6418.0	6450.3	6445.7	6420.3
40°	6857.6	6869.1	6876.0	6889.8	6933.5	6984.1	7027.9	7034.8	7069.3	7062.4	7030.2
42.5°	7573.2	7577.8	7617.0	7637.7	7679.1	7704.4	7759.6	7766.5	7808.0	7789.6	7752.7
45°	8376.4	8417.8	8454.6	8496.0	8539.7	8569.7	8613.4	8604.2	8631.8	8604.2	8583.5
47.5°	9220.9	9250.8	9333.7	9398.1	9469.4	9494.7	9556.9	9529.3	9556.9	9517.8	9510.9
50°	10150.6	10203.5	10274.9	10348.5	10424.4	10465.9	10546.4	10511.9	10548.7	10511.9	10491.2
52.5°	11066.5	11080.3	11236.8	11344.9	11450.8	11499.1	11547.4	11531.3	11533.6	11531.3	11510.6
55°	11936.3	11968.5	12125.0	12272.3	12456.4	12592.2	12675.0	12665.8	12645.1	12624.4	12589.9
57.5°	12916.6	12948.8	13128.3	13310.1	13519.5	13712.8	13880.8	14053.4	14120.2	14138.6	14062.6
60°	14242.1	14239.8	14479.1	14700.1	14999.2	15286.9	15655.1	16030.1	16460.5	16660.7	16396.0
62.5°	15590.6	15645.8	15991.0	16382.2	16999.0	17599.6	18278.4	18945.8	19626.9	20181.5	19592.4
65°	15429.5	15641.2	16154.4	17040.4	18179.5	19532.6	20996.1	22544.8	23944.0	24905.9	23826.6
67.5°	13372.3	13673.7	14196.1	15273.1	16697.5	18648.9	21106.6	24169.5	27729.4	29450.7	27317.5
70°	9692.6	10033.2	10580.9	11632.6	13043.2	14898.0	17567.3	21244.7	25957.5	27692.6	25343.1
72.5°	4823.3	5007.4	5345.7	6015.3	7083.1	8588.1	11008.9	14543.6	18713.3	20305.8	18158.8
75°	1638.5	1723.6	1781.1	1999.7	2338.0	2929.4	4133.0	6358.2	9699.6	11628.0	9561.5
77.5°	945.8	948.1	987.2	1026.3	1083.9	1148.3	1309.4	1719.0	2973.1	4222.7	3076.7
80°	612.1	609.8	642.0	671.9	711.1	743.3	752.5	796.2	918.2	1088.5	973.4
82.5°	317.6	356.7	428.0	467.1	540.8	554.6	536.2	520.1	550.0	570.7	584.5
85°	174.9	151.9	227.8	294.6	326.8	331.4	331.4	313.0	324.5	317.6	345.2
87.5°	80.5	73.6	89.7	145.0	154.2	131.2	138.1	122.0	87.4	85.1	96.7
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: P193367

CATALOG NUMBER: GLEON-AF-09-LED-E1-5MQ-8030-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7	4986.7
2.5°	4963.7	4966.0	4966.0	4972.9	4975.2	4979.8	4984.4	4986.7
5°	4924.6	4931.5	4926.9	4933.8	4933.8	4938.4	4938.4	4940.7
7.5°	4867.0	4873.9	4873.9	4873.9	4871.6	4878.5	4878.5	4878.5
10°	4807.2	4811.8	4809.5	4804.9	4800.3	4807.2	4804.9	4802.6
12.5°	4788.8	4777.3	4768.1	4763.5	4754.3	4756.6	4749.7	4749.7
15°	4800.3	4779.6	4763.5	4756.6	4747.4	4742.8	4738.2	4740.5
17.5°	4830.2	4804.9	4784.2	4772.7	4761.2	4754.3	4745.1	4747.4
20°	4883.1	4853.2	4823.3	4800.3	4779.6	4768.1	4761.2	4758.9
22.5°	4961.4	4917.7	4873.9	4839.4	4811.8	4795.7	4788.8	4784.2
25°	5051.1	5002.8	4952.2	4913.1	4885.4	4864.7	4850.9	4850.9
27.5°	5163.9	5124.8	5078.7	5032.7	5007.4	4986.7	4977.5	4972.9
30°	5352.6	5315.8	5278.9	5235.2	5203.0	5182.3	5166.2	5152.4
32.5°	5594.2	5564.3	5534.4	5502.2	5472.2	5444.6	5419.3	5407.8
35°	5934.8	5911.8	5891.1	5854.2	5842.7	5826.6	5812.8	5801.3
37.5°	6404.2	6395.0	6395.0	6355.9	6346.7	6339.8	6326.0	6328.3
40°	7021.0	7030.2	7018.7	7004.8	6997.9	6979.5	6979.5	6995.6
42.5°	7750.4	7757.3	7782.7	7759.6	7785.0	7761.9	7748.1	7759.6
45°	8597.3	8622.6	8673.2	8650.2	8666.3	8627.2	8578.9	8581.2
47.5°	9547.7	9570.7	9591.4	9575.3	9577.6	9513.2	9448.7	9432.6
50°	10534.9	10544.1	10555.6	10532.6	10537.2	10465.9	10392.2	10394.5
52.5°	11510.6	11554.3	11600.3	11538.2	11524.4	11443.9	11340.3	11298.9
55°	12626.7	12688.8	12635.9	12527.7	12419.6	12311.4	12175.6	12152.6
57.5°	14002.8	13896.9	13731.3	13526.4	13376.9	13225.0	13086.9	13029.4
60°	15917.4	15519.3	15220.1	14916.4	14725.4	14539.0	14357.2	14329.6
62.5°	18623.6	17935.5	17339.5	16711.3	16198.1	15797.7	15477.9	15388.1
65°	22015.6	20388.6	18978.0	17661.7	16518.0	15655.1	15112.0	14872.6
67.5°	23474.5	20262.1	17843.5	15974.9	14479.1	13434.4	12847.6	12555.3
70°	20627.9	16803.4	14173.1	12302.2	10939.9	9826.1	9294.5	8981.6
72.5°	14191.5	10689.1	8452.3	6899.0	5810.5	4878.5	4510.3	4482.7
75°	6372.0	4220.4	2908.7	2241.4	1887.0	1640.8	1564.8	1507.3
77.5°	1783.4	1318.6	1175.9	1100.0	1026.3	941.2	909.0	915.9
80°	867.6	819.2	787.0	738.7	671.9	600.6	568.4	582.2
82.5°	575.3	568.4	589.1	554.6	457.9	388.9	326.8	299.2
85°	349.8	354.4	361.3	363.6	308.4	216.3	147.3	165.7
87.5°	138.1	158.8	172.6	179.5	168.0	103.6	82.8	85.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)