

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: P269604

Luminaire Tested: **GLEON-AF-09-LED-E1-5MQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269604
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 53277.8 lumens
Efficiency: N/A
Efficacy: 92.7 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 - G5

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

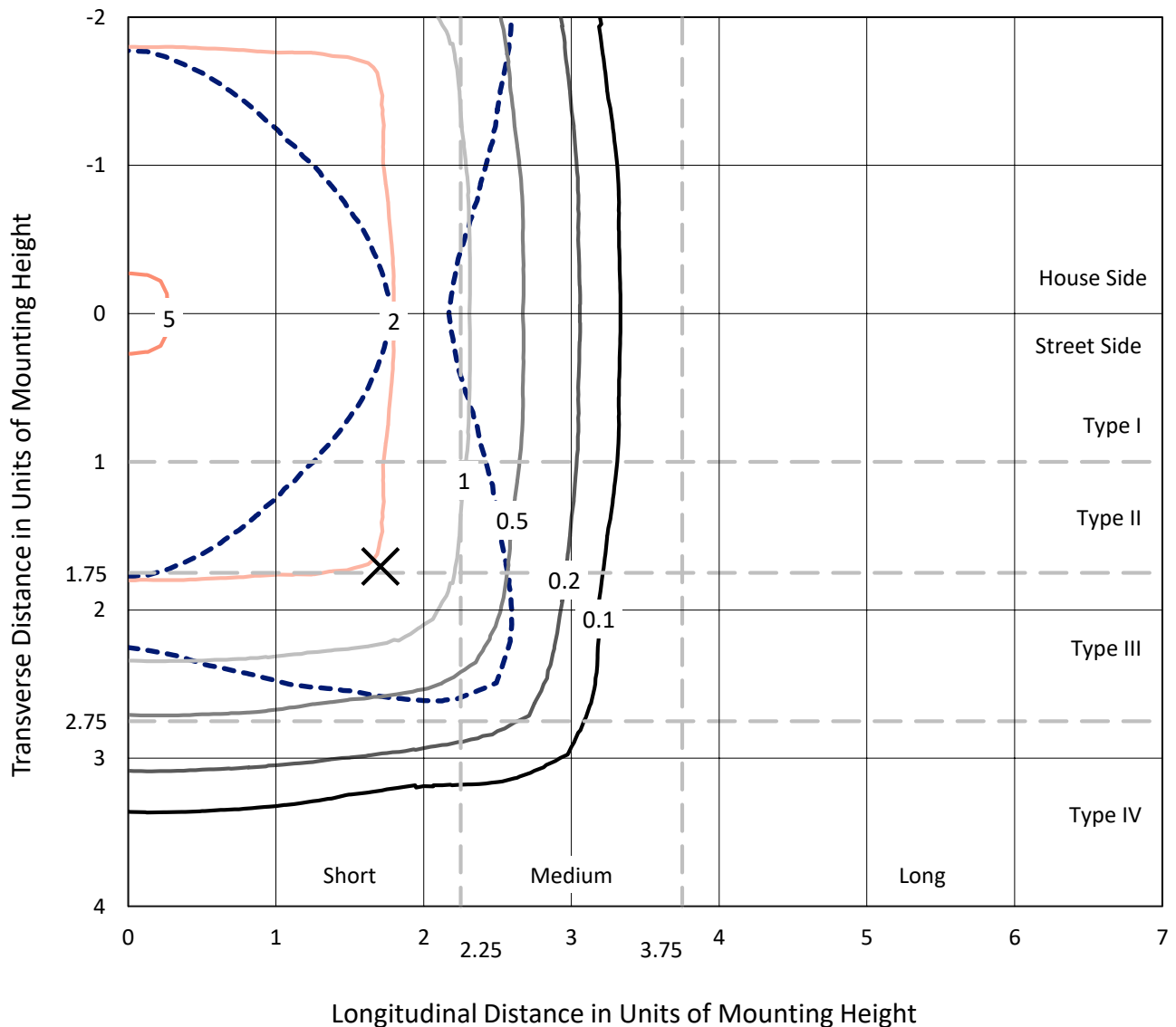


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Iso-Footcandle Lines of Horizontal Illumination

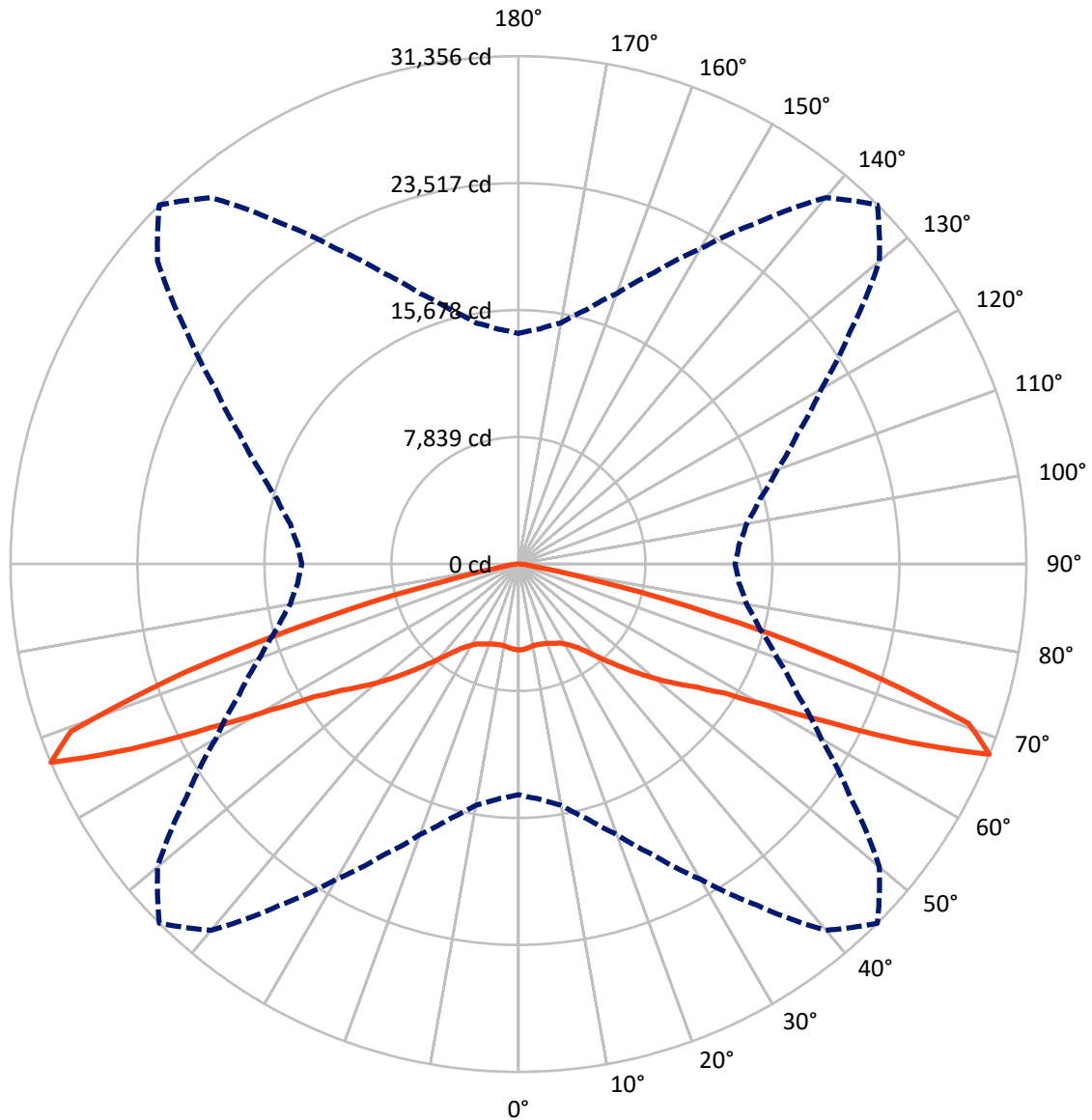
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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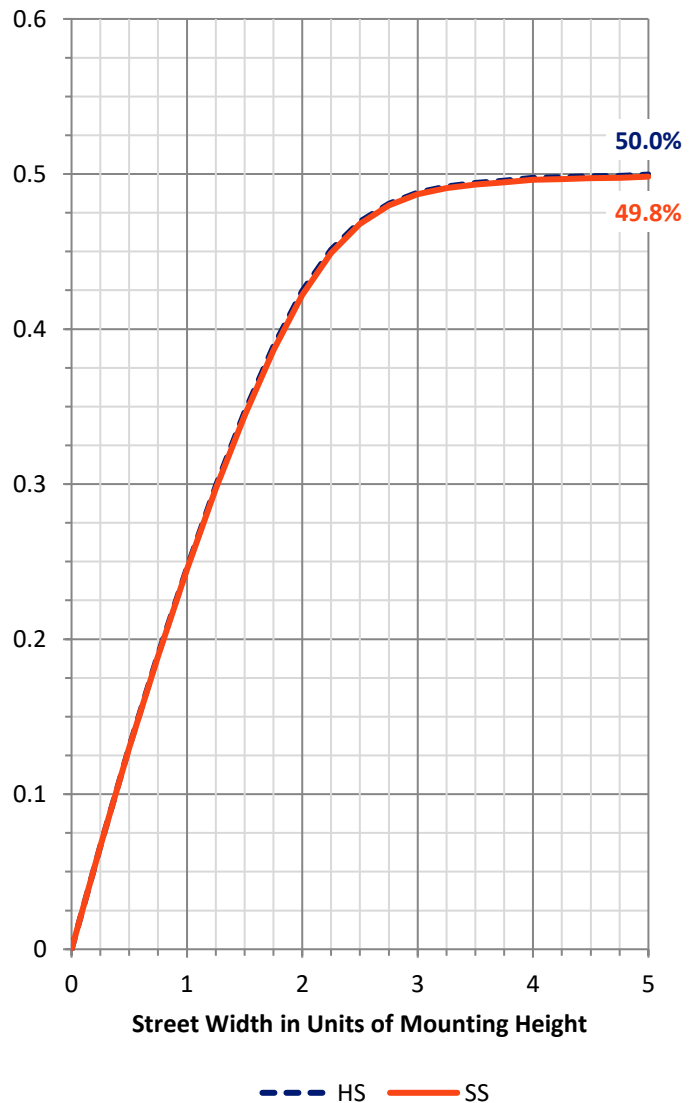
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26638.9	0.0	26638.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26638.9	0.0	26638.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	53277.8	0.0	53277.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.9	0.9
10°-20°	1442.0	2.7
20°-30°	2451.4	4.6
30°-40°	4007.2	7.5
40°-50°	7153.6	13.4
50°-60°	12061.2	22.6
60°-70°	18717.3	35.1
70°-80°	6576.4	12.3
80°-90°	371.7	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°	53277.8	100.0
0°-180°	53277.8	100.0



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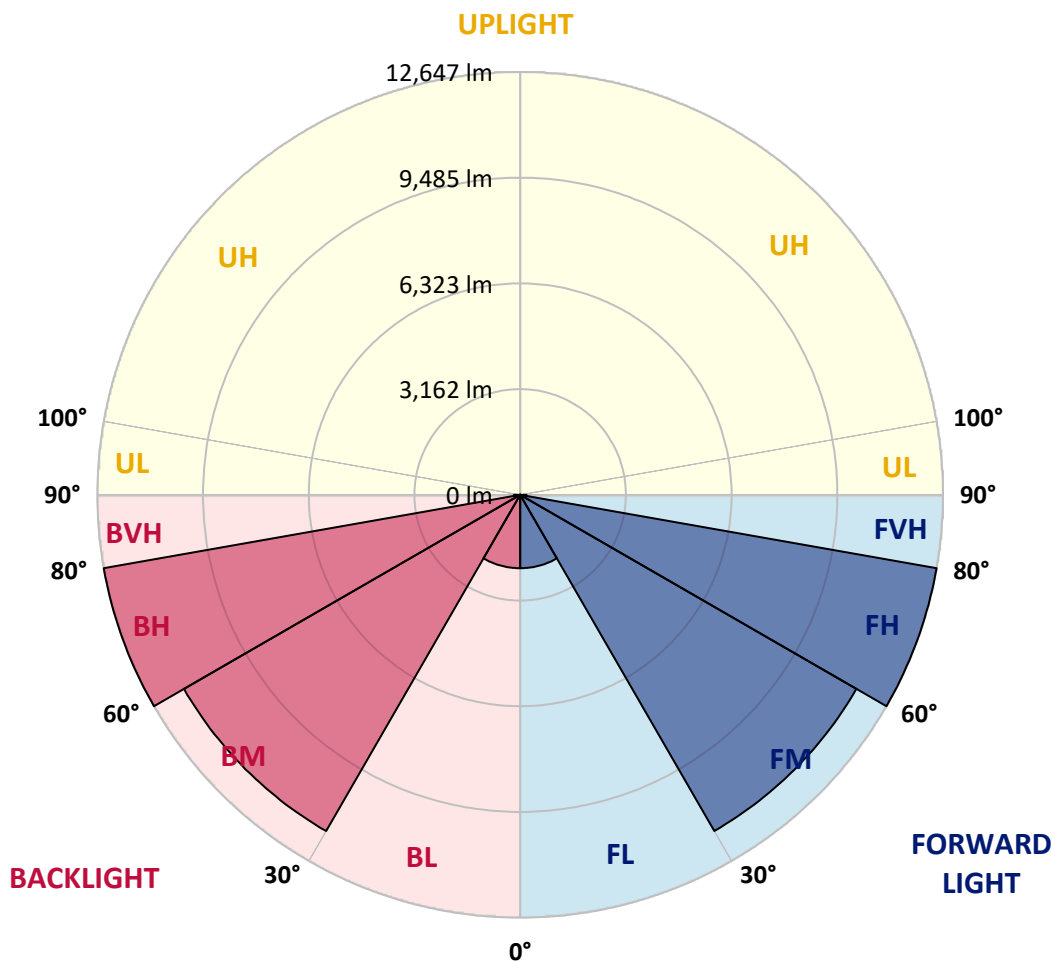
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2195.1	4.1			
FM	(30°-60°)	11611.1	21.8			
FH	(60°-80°)	12646.8	23.7			G5
FVH	(80°-90°)	185.8	0.3			G2/225
BL	(0°-30°)	2195.1	4.1	B3/2500		
BM	(30°-60°)	11611.1	21.8	B5		
BH	(60°-80°)	12646.8	23.7	B5		G5
BVH	(80°-90°)	185.8	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5309.3	5309.3	5309.3	5309.3	5309.3	5309.3	5309.3	5309.3	5309.3	5309.3	5309.3
2.5°	5289.8	5294.7	5294.7	5294.7	5292.3	5292.3	5287.3	5292.3	5289.8	5282.5	5284.9
5°	5245.7	5250.6	5250.6	5248.1	5255.4	5253.0	5245.7	5250.6	5248.1	5243.1	5245.7
7.5°	5182.0	5189.2	5189.2	5186.9	5194.2	5191.8	5186.9	5189.2	5189.2	5182.0	5182.0
10°	5110.8	5115.8	5115.8	5113.3	5125.5	5125.5	5123.2	5130.5	5132.9	5125.5	5120.7
12.5°	5044.7	5052.1	5052.1	5061.9	5074.2	5079.0	5091.4	5101.0	5110.8	5108.4	5098.6
15°	5005.5	5010.4	5020.3	5032.5	5052.1	5069.2	5088.9	5110.8	5130.5	5135.4	5120.7
17.5°	4981.0	4988.4	5003.1	5020.3	5047.1	5076.6	5106.0	5135.4	5162.4	5172.1	5155.1
20°	4973.6	4978.5	4993.3	5022.8	5059.4	5103.5	5145.2	5179.4	5216.3	5228.6	5216.3
22.5°	4988.4	4998.2	5015.3	5049.6	5098.6	5155.1	5204.1	5250.6	5297.0	5319.1	5301.9
25°	5054.6	5064.4	5086.5	5130.5	5184.4	5243.1	5299.6	5353.4	5395.1	5417.1	5404.9
27.5°	5177.0	5189.2	5216.3	5260.4	5319.1	5382.9	5444.1	5488.3	5522.5	5529.8	5515.1
30°	5360.8	5387.8	5419.7	5468.6	5537.2	5591.1	5652.3	5691.7	5733.3	5733.3	5720.9
32.5°	5647.5	5674.5	5708.6	5755.4	5809.2	5868.0	5921.8	5956.2	6000.3	6002.7	5973.3
35°	6076.2	6088.5	6117.8	6147.3	6196.2	6247.7	6294.3	6316.3	6353.2	6355.6	6328.6
37.5°	6642.2	6644.7	6664.3	6674.0	6718.2	6774.5	6818.7	6833.2	6867.6	6862.7	6835.7
40°	7301.2	7313.6	7320.8	7335.6	7382.1	7436.0	7482.6	7490.0	7526.7	7519.4	7485.0
42.5°	8063.2	8068.1	8109.8	8131.8	8176.0	8203.0	8261.7	8269.1	8313.2	8293.6	8254.3
45°	8918.4	8962.4	9001.6	9045.8	9092.4	9124.2	9170.6	9160.8	9190.3	9160.8	9138.8
47.5°	9817.5	9849.3	9937.6	10006.2	10082.1	10109.0	10175.2	10145.8	10175.2	10133.6	10126.2
50°	10807.4	10863.7	10939.6	11018.2	11098.9	11143.0	11228.8	11192.1	11231.1	11192.1	11170.0
52.5°	11782.4	11797.3	11963.7	12079.0	12191.6	12243.1	12294.6	12277.5	12279.9	12277.5	12255.3
55°	12708.6	12742.9	12909.5	13066.3	13262.3	13406.9	13495.1	13485.4	13463.3	13441.2	13404.5
57.5°	13752.4	13786.6	13977.7	14171.3	14394.4	14600.2	14778.9	14962.7	15033.8	15053.3	14972.5
60°	15163.6	15161.1	15416.1	15651.2	15969.7	16276.0	16668.1	17067.3	17525.6	17738.7	17456.9
62.5°	16599.4	16658.2	17025.7	17442.2	18098.8	18738.4	19461.2	20171.6	20896.8	21487.3	20860.1
65°	16427.8	16653.3	17199.7	18143.0	19355.7	20796.4	22354.6	24003.6	25493.2	26517.3	25368.2
67.5°	14237.4	14558.4	15114.6	16261.3	17777.8	19855.5	22472.3	25733.3	29523.7	31356.2	29085.1
70°	10319.8	10682.5	11265.6	12385.2	13887.2	15861.9	18704.0	22619.2	27637.1	29484.3	26982.8
72.5°	5135.4	5331.4	5691.7	6404.6	7541.5	9143.8	11721.3	15484.7	19924.1	21619.6	19333.7
75°	1744.5	1835.1	1896.4	2129.2	2489.4	3118.9	4400.3	6769.5	10327.2	12380.4	10180.1
77.5°	1007.0	1009.4	1051.0	1092.8	1154.1	1222.7	1394.1	1830.2	3165.4	4495.9	3275.8
80°	651.7	649.3	683.6	715.4	757.1	791.3	801.2	847.7	977.5	1159.0	1036.4
82.5°	338.1	379.8	455.7	497.4	575.8	590.5	570.9	553.7	585.5	607.7	622.3
85°	186.2	161.8	242.5	313.6	348.0	352.9	352.9	333.2	345.5	338.1	367.4
87.5°	85.8	78.4	95.6	154.4	164.2	139.6	147.1	129.8	93.2	90.6	102.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5309.3	5309.3	5309.3	5309.3	5309.3	5309.3	5309.3	5309.3
2.5°	5284.9	5287.3	5287.3	5294.7	5297.0	5301.9	5306.8	5309.3
5°	5243.1	5250.6	5245.7	5253.0	5253.0	5257.9	5257.9	5260.4
7.5°	5182.0	5189.2	5189.2	5189.2	5186.9	5194.2	5194.2	5194.2
10°	5118.3	5123.2	5120.7	5115.8	5110.8	5118.3	5115.8	5113.3
12.5°	5098.6	5086.5	5076.6	5071.7	5061.9	5064.4	5057.0	5057.0
15°	5110.8	5088.9	5071.7	5064.4	5054.6	5049.6	5044.7	5047.1
17.5°	5142.7	5115.8	5093.7	5081.5	5069.2	5061.9	5052.1	5054.6
20°	5199.1	5167.2	5135.4	5110.8	5088.9	5076.6	5069.2	5066.8
22.5°	5282.5	5235.9	5189.2	5152.6	5123.2	5106.0	5098.6	5093.7
25°	5378.0	5326.5	5272.6	5230.9	5201.5	5179.4	5164.7	5164.7
27.5°	5497.9	5456.3	5407.3	5358.4	5331.4	5309.3	5299.6	5294.7
30°	5698.8	5659.7	5620.5	5574.0	5539.7	5517.6	5500.4	5485.8
32.5°	5956.2	5924.3	5892.5	5858.1	5826.3	5796.9	5770.0	5757.7
35°	6318.8	6294.3	6272.2	6233.0	6220.9	6203.6	6189.0	6176.7
37.5°	6818.7	6808.9	6808.9	6767.1	6757.4	6750.0	6735.3	6737.7
40°	7475.2	7485.0	7472.8	7458.1	7450.7	7431.0	7431.0	7448.2
42.5°	8251.9	8259.2	8286.2	8261.7	8288.8	8264.1	8249.5	8261.7
45°	9153.5	9180.5	9234.3	9210.0	9227.0	9185.3	9134.0	9136.4
47.5°	10165.4	10190.0	10212.0	10194.9	10197.3	10128.7	10060.1	10043.0
50°	11216.5	11226.3	11238.5	11214.1	11219.0	11143.0	11064.7	11067.1
52.5°	12255.3	12301.8	12350.9	12284.9	12270.0	12184.3	12074.1	12029.9
55°	13443.7	13509.8	13453.5	13338.4	13223.2	13108.0	12963.4	12938.9
57.5°	14908.8	14796.2	14619.7	14401.6	14242.4	14080.8	13933.7	13872.4
60°	16947.3	16523.5	16205.0	15881.6	15678.2	15479.8	15286.2	15256.8
62.5°	19828.6	19096.0	18461.4	17792.5	17246.2	16820.0	16479.3	16383.7
65°	23440.1	21707.8	20205.9	18804.5	17586.7	16668.1	16089.7	15835.0
67.5°	24993.5	21573.1	18998.1	17008.6	15416.1	14303.6	13678.9	13367.7
70°	21962.7	17890.6	15090.1	13098.1	11647.8	10461.9	9895.9	9562.6
72.5°	15109.8	11380.6	8999.2	7345.4	6186.4	5194.2	4802.2	4772.8
75°	6784.3	4493.5	3096.9	2386.3	2009.1	1746.9	1666.0	1604.8
77.5°	1898.7	1404.0	1252.0	1171.1	1092.8	1002.1	967.7	975.1
80°	923.6	872.3	837.8	786.5	715.4	639.5	605.2	619.9
82.5°	612.6	605.2	627.2	590.5	487.6	414.1	348.0	318.4
85°	372.3	377.3	384.7	387.1	328.3	230.3	156.8	176.3
87.5°	147.1	169.1	183.8	191.1	178.9	110.2	88.3	90.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)