

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: P191655

Luminaire Tested: **GLEON-AF-07-LED-E1-5NQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-5NQ-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43429 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

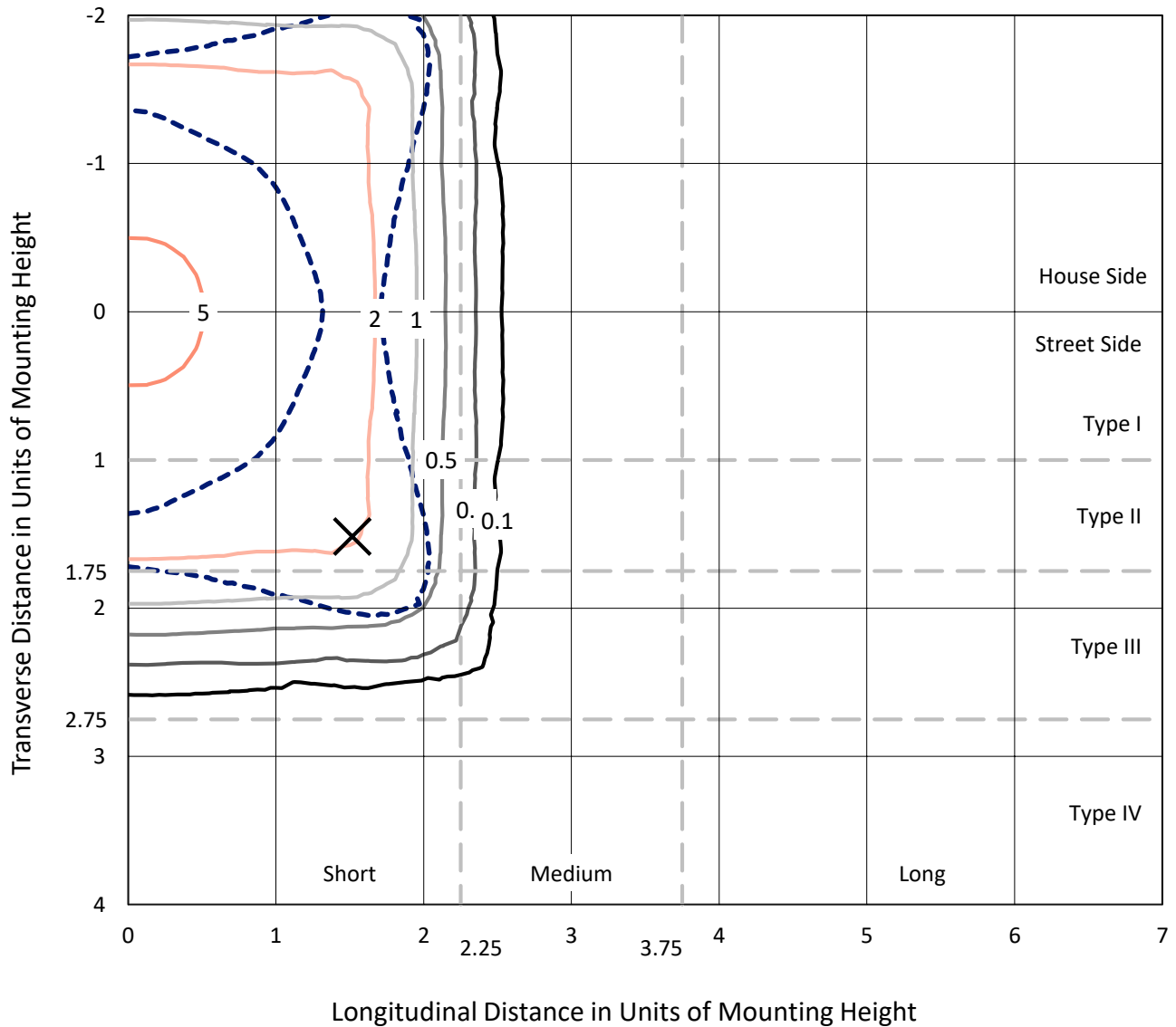
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

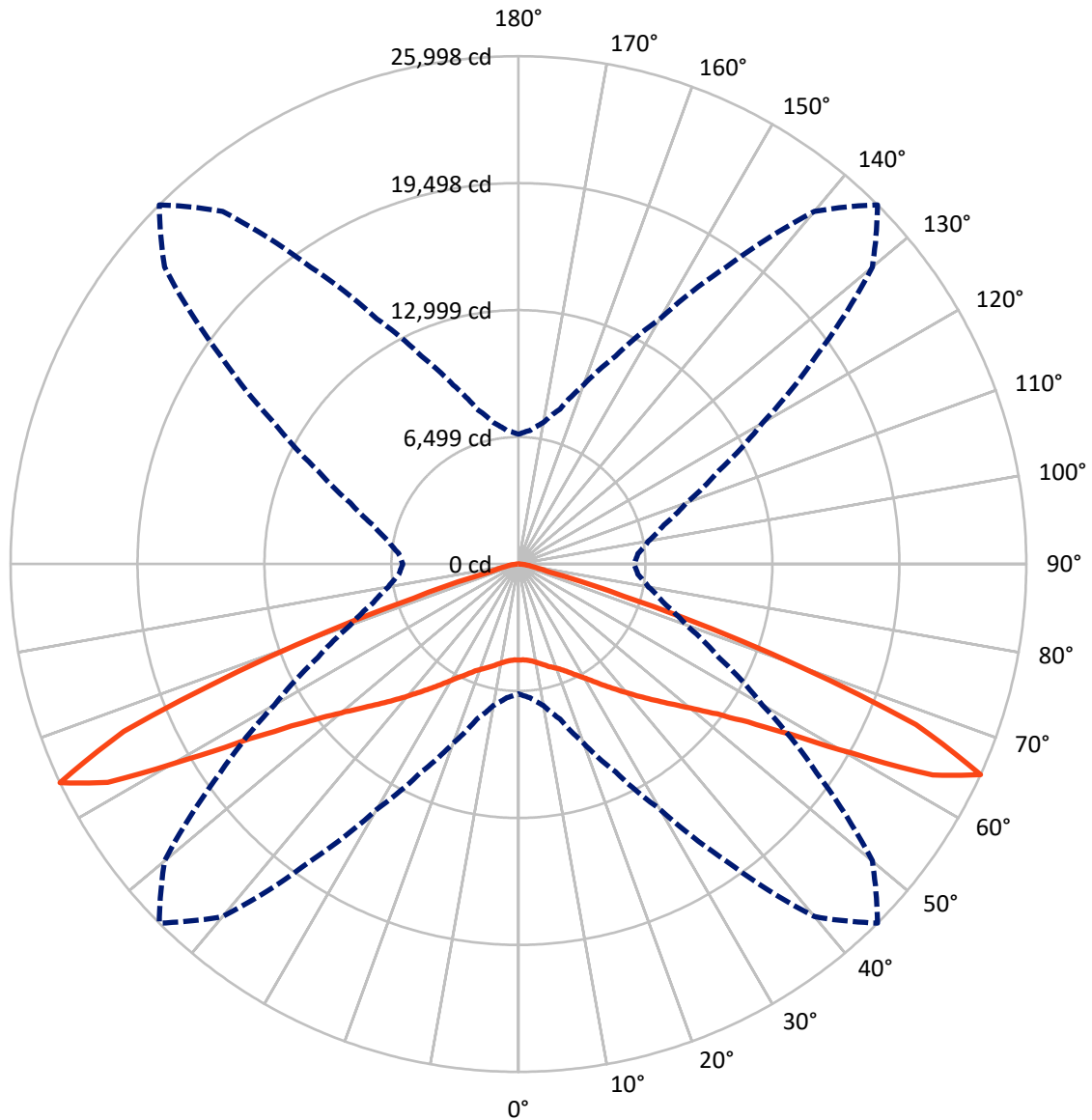
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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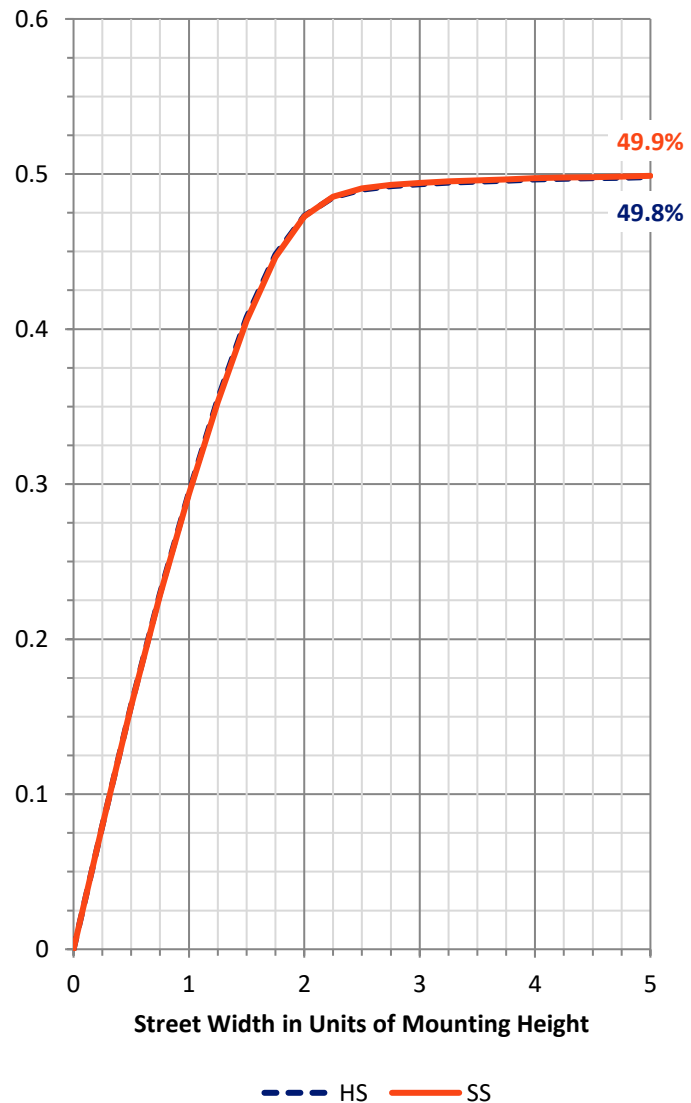
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21714.5	0.0	21714.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21714.5	0.0	21714.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	43429.0	0.0	43429.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.0	1.1
10°-20°	1536.1	3.5
20°-30°	2872.2	6.6
30°-40°	4857.7	11.2
40°-50°	7942.9	18.3
50°-60°	12630.5	29.1
60°-70°	11417.1	26.3
70°-80°	1444.9	3.3
80°-90°	248.5	0.6
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°	43429.0	100.0
0°-180°	43429.0	100.0



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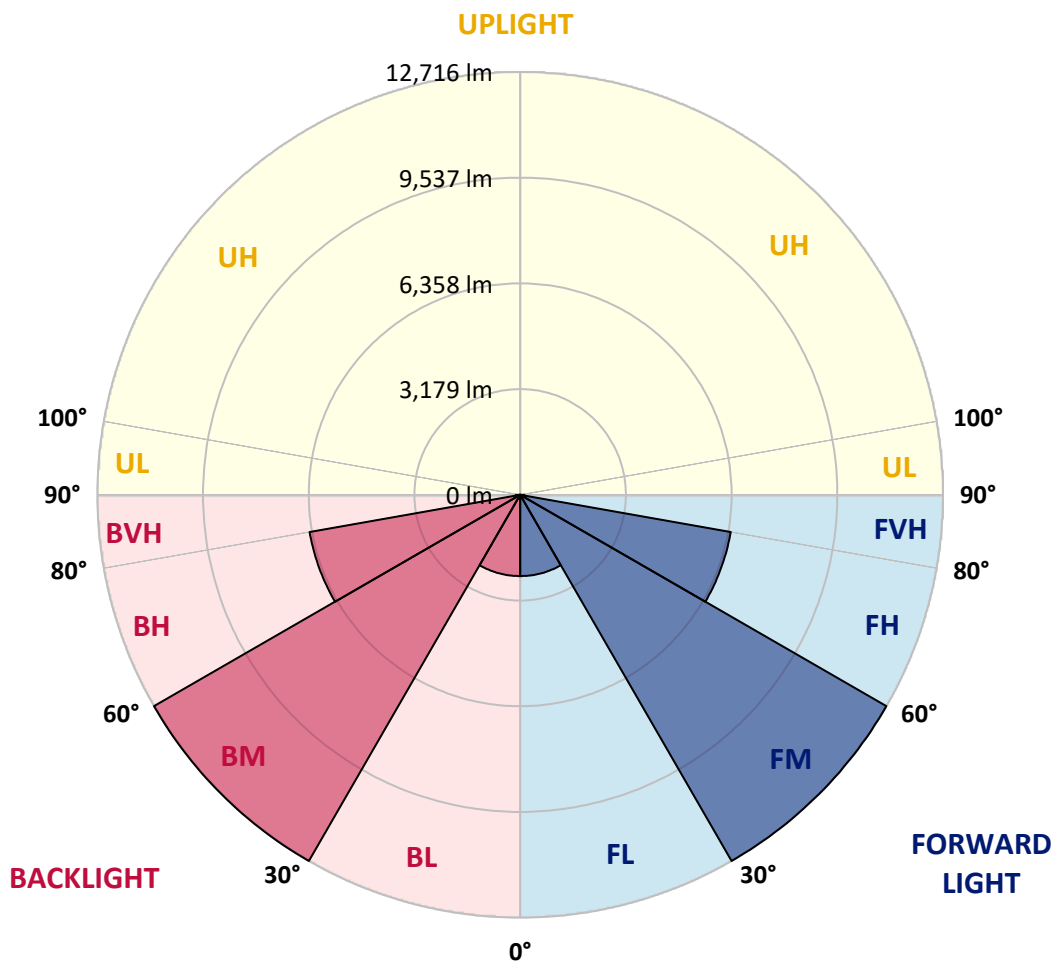
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2443.6	5.6			
FM	(30°-60°)	12715.6	29.3			
FH	(60°-80°)	6431.0	14.8			G3/7500
FVH	(80°-90°)	124.3	0.3			G2/225
BL	(0°-30°)	2443.6	5.6	B3/2500		
BM	(30°-60°)	12715.6	29.3	B5		
BH	(60°-80°)	6431.0	14.8	B5		G3/7500
BVH	(80°-90°)	124.3	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4914.0	4914.0	4914.0	4914.0	4914.0	4914.0	4914.0	4914.0	4914.0	4914.0	4914.0
2.5°	4918.1	4922.2	4926.2	4922.2	4926.2	4920.1	4916.0	4922.2	4916.0	4909.9	4914.0
5°	4960.8	4962.8	4962.8	4956.7	4962.8	4958.8	4952.7	4960.8	4954.7	4948.6	4952.7
7.5°	5032.0	5040.1	5034.0	5027.9	5032.0	5027.9	5023.8	5025.9	5023.8	5017.7	5019.8
10°	5127.6	5133.7	5129.6	5127.6	5131.6	5129.6	5125.5	5123.5	5125.5	5119.4	5119.4
12.5°	5243.5	5241.5	5239.4	5241.5	5247.6	5247.6	5245.5	5247.6	5251.6	5253.7	5249.6
15°	5357.4	5361.5	5361.5	5361.5	5373.7	5383.9	5390.0	5394.0	5402.2	5404.2	5396.1
17.5°	5499.8	5499.8	5497.8	5499.8	5512.0	5528.3	5534.4	5542.5	5550.6	5556.7	5546.6
20°	5658.4	5662.5	5662.5	5666.6	5682.8	5701.2	5701.2	5705.2	5701.2	5705.2	5699.1
22.5°	5851.7	5863.9	5863.9	5865.9	5882.2	5904.5	5898.4	5904.5	5894.4	5902.5	5894.4
25°	6103.9	6122.2	6118.1	6118.1	6130.3	6144.6	6146.6	6158.8	6156.8	6166.9	6160.8
27.5°	6388.6	6417.1	6425.2	6423.2	6431.3	6445.6	6449.6	6463.9	6455.7	6463.9	6459.8
30°	6730.3	6742.5	6758.8	6764.9	6775.1	6789.3	6789.3	6791.3	6781.2	6793.4	6799.5
32.5°	7084.2	7106.6	7122.9	7159.5	7177.8	7188.0	7185.9	7190.0	7179.8	7196.1	7208.3
35°	7552.0	7568.3	7594.8	7623.2	7647.6	7645.6	7639.5	7641.5	7641.5	7655.8	7668.0
37.5°	8115.4	8119.5	8154.1	8194.8	8207.0	8194.8	8158.2	8150.0	8131.7	8150.0	8170.4
40°	8711.4	8725.6	8794.8	8821.2	8827.3	8805.0	8752.1	8721.6	8680.9	8703.3	8731.7
42.5°	9335.8	9364.3	9427.3	9474.1	9494.5	9480.2	9407.0	9360.2	9307.3	9319.5	9348.0
45°	10027.4	10061.9	10151.4	10196.2	10234.8	10212.4	10141.3	10070.1	9986.7	9992.8	10037.5
47.5°	10800.3	10834.8	10950.8	11026.0	11046.4	11042.3	10963.0	10865.3	10751.4	10747.4	10786.0
50°	11666.7	11701.3	11845.7	11961.6	12020.6	12014.5	11921.0	11782.7	11644.3	11646.4	11695.2
52.5°	12512.8	12555.6	12706.1	12905.4	13021.3	13104.7	13047.8	12917.6	12748.8	12752.8	12797.6
55°	13306.1	13377.3	13550.2	13820.7	14036.3	14270.2	14337.3	14333.2	14231.5	14260.0	14304.7
57.5°	13690.5	13796.3	14062.7	14489.8	14929.2	15405.1	15807.8	16108.9	16237.0	16430.2	16385.5
60°	12962.3	13131.2	13523.7	14152.2	15020.7	16013.3	17077.0	18116.4	19003.2	19672.3	19287.9
62.5°	10613.1	10832.8	11308.7	12114.2	13428.1	15016.6	17052.6	19509.6	22186.3	23801.2	22648.0
65°	6640.8	6868.6	7352.7	8215.1	9752.8	11727.7	14489.8	18561.8	23563.3	25997.9	23650.7
67.5°	2589.2	2713.3	2975.7	3526.9	4682.1	6439.5	9211.7	13832.9	19814.7	21948.3	19446.6
70°	1297.7	1309.9	1358.7	1460.4	1708.5	2219.0	3376.4	6413.0	11363.7	13725.1	10954.8
72.5°	937.6	939.7	964.1	1008.8	1088.2	1202.1	1421.7	1962.8	3695.7	5648.3	3463.8
75°	718.0	726.1	740.4	764.8	807.5	864.4	943.8	1130.9	1401.4	1625.1	1366.8
77.5°	553.2	569.5	579.7	602.0	628.5	667.1	689.5	760.7	884.8	931.5	917.3
80°	421.0	435.3	457.6	475.9	494.2	512.6	504.4	537.0	602.0	640.7	620.4
82.5°	268.5	284.8	349.8	366.1	374.2	386.4	372.2	374.2	402.7	427.1	402.7
85°	172.9	183.1	221.7	242.0	244.1	252.2	246.1	231.9	231.9	211.5	238.0
87.5°	79.3	81.4	99.7	118.0	122.0	109.8	107.8	103.7	83.4	79.3	85.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4914.0	4914.0	4914.0	4914.0	4914.0	4914.0	4914.0	4914.0
2.5°	4912.0	4916.0	4918.1	4924.2	4926.2	4926.2	4928.3	4932.3
5°	4950.6	4956.7	4958.8	4966.9	4968.9	4966.9	4971.0	4973.0
7.5°	5019.8	5029.9	5034.0	5042.2	5036.1	5044.2	5046.2	5046.2
10°	5121.5	5131.6	5133.7	5141.8	5137.7	5141.8	5141.8	5137.7
12.5°	5255.7	5257.8	5251.6	5257.8	5249.6	5253.7	5247.6	5243.5
15°	5404.2	5398.1	5383.9	5383.9	5371.7	5373.7	5371.7	5369.6
17.5°	5548.6	5536.4	5526.2	5522.2	5512.0	5510.0	5503.9	5503.9
20°	5707.3	5701.2	5695.1	5686.9	5676.7	5666.6	5664.5	5668.6
22.5°	5898.4	5896.4	5896.4	5892.3	5878.1	5867.9	5861.8	5861.8
25°	6154.7	6136.4	6136.4	6134.4	6128.3	6122.2	6110.0	6116.1
27.5°	6443.5	6433.4	6441.5	6439.5	6433.4	6433.4	6425.2	6425.2
30°	6799.5	6795.4	6807.6	6797.4	6777.1	6775.1	6766.9	6756.8
32.5°	7210.3	7206.3	7224.6	7212.4	7179.8	7161.5	7145.3	7137.1
35°	7668.0	7670.0	7692.4	7684.2	7647.6	7635.4	7607.0	7602.9
37.5°	8168.3	8200.9	8239.5	8247.7	8217.1	8209.0	8178.5	8162.2
40°	8756.1	8798.9	8857.8	8872.1	8839.5	8833.4	8790.7	8768.3
42.5°	9382.6	9455.8	9529.0	9541.2	9508.7	9476.2	9435.5	9419.2
45°	10082.3	10169.7	10265.3	10289.7	10240.9	10202.3	10149.4	10149.4
47.5°	10867.4	10977.2	11085.0	11152.1	11107.4	11066.7	11003.7	10963.0
50°	11794.9	11945.4	12085.7	12154.9	12083.7	12006.4	11896.6	11859.9
52.5°	12958.3	13121.0	13243.0	13206.4	13096.6	12988.8	12868.8	12820.0
55°	14443.1	14498.0	14498.0	14359.7	14140.0	13959.0	13769.8	13706.8
57.5°	16300.0	16088.5	15763.1	15350.2	14831.5	14380.0	14074.9	13930.5
60°	18482.5	17465.5	16316.3	15187.5	14260.0	13495.2	13041.7	12834.2
62.5°	19936.7	17276.3	14973.9	13161.7	11827.4	10906.0	10279.6	10035.5
65°	18633.0	14408.5	11325.0	9156.8	7702.6	6764.9	6144.6	5916.8
67.5°	13647.8	9028.7	6030.7	4322.1	3166.9	2526.2	2271.9	2166.2
70°	6126.2	3179.1	1948.5	1521.4	1311.9	1204.1	1157.3	1141.0
72.5°	1846.8	1336.3	1126.8	1017.0	933.6	880.7	842.1	838.0
75°	1114.6	927.5	823.7	758.7	705.8	663.1	642.7	636.6
77.5°	779.0	681.4	632.6	585.8	545.1	512.6	494.2	480.0
80°	547.1	500.4	478.0	451.5	425.1	394.6	368.1	355.9
82.5°	366.1	355.9	355.9	339.7	317.3	288.8	235.9	223.7
85°	235.9	233.9	238.0	231.9	215.6	185.1	152.5	144.4
87.5°	109.8	111.9	124.1	122.0	118.0	97.6	77.3	73.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)