

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: P300575

Luminaire Tested: **GLNA-AF-07-LED-E1-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-RW-7050
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42890.8 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

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



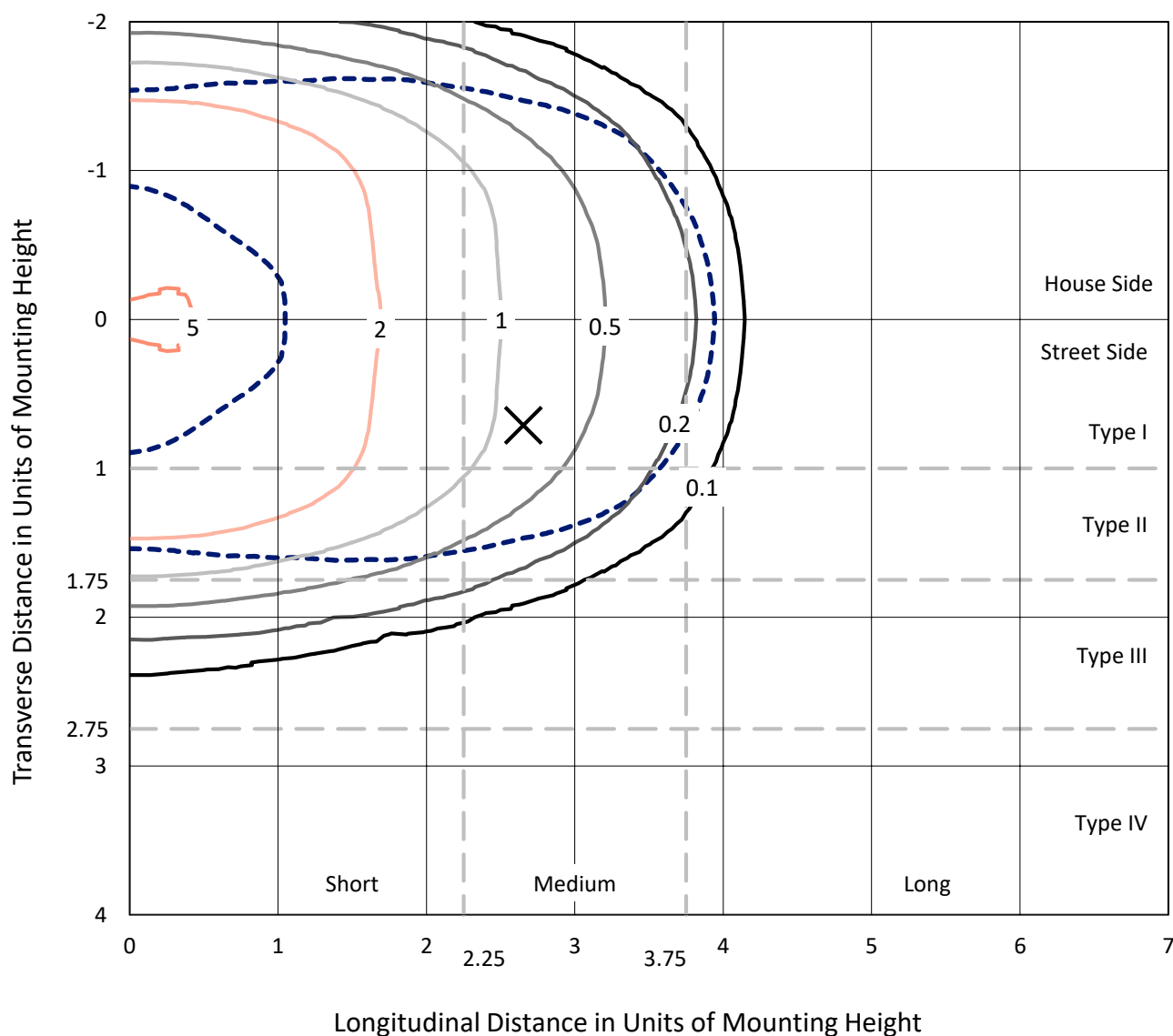
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

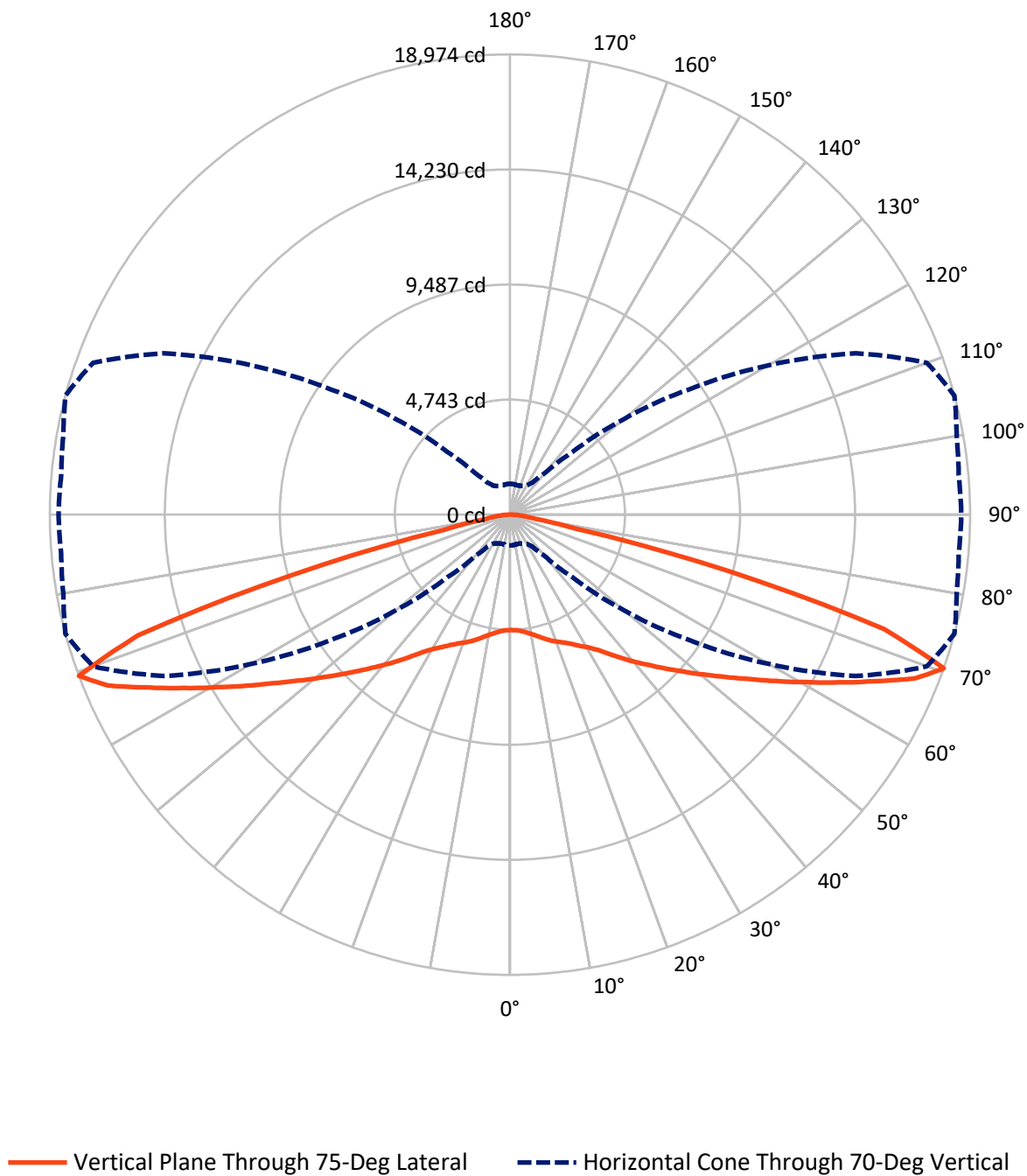


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21445.4	0.0	21445.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21445.4	0.0	21445.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	42890.8	0.0	42890.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.3	1.1
10°-20°	1417.8	3.3
20°-30°	2668.4	6.2
30°-40°	4725.3	11.0
40°-50°	7902.2	18.4
50°-60°	11011.8	25.7
60°-70°	10211.6	23.8
70°-80°	4069.6	9.5
80°-90°	427.8	1.0
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°	42890.8	100.0
0°-180°	42890.8	100.0

Coefficient of Utilization



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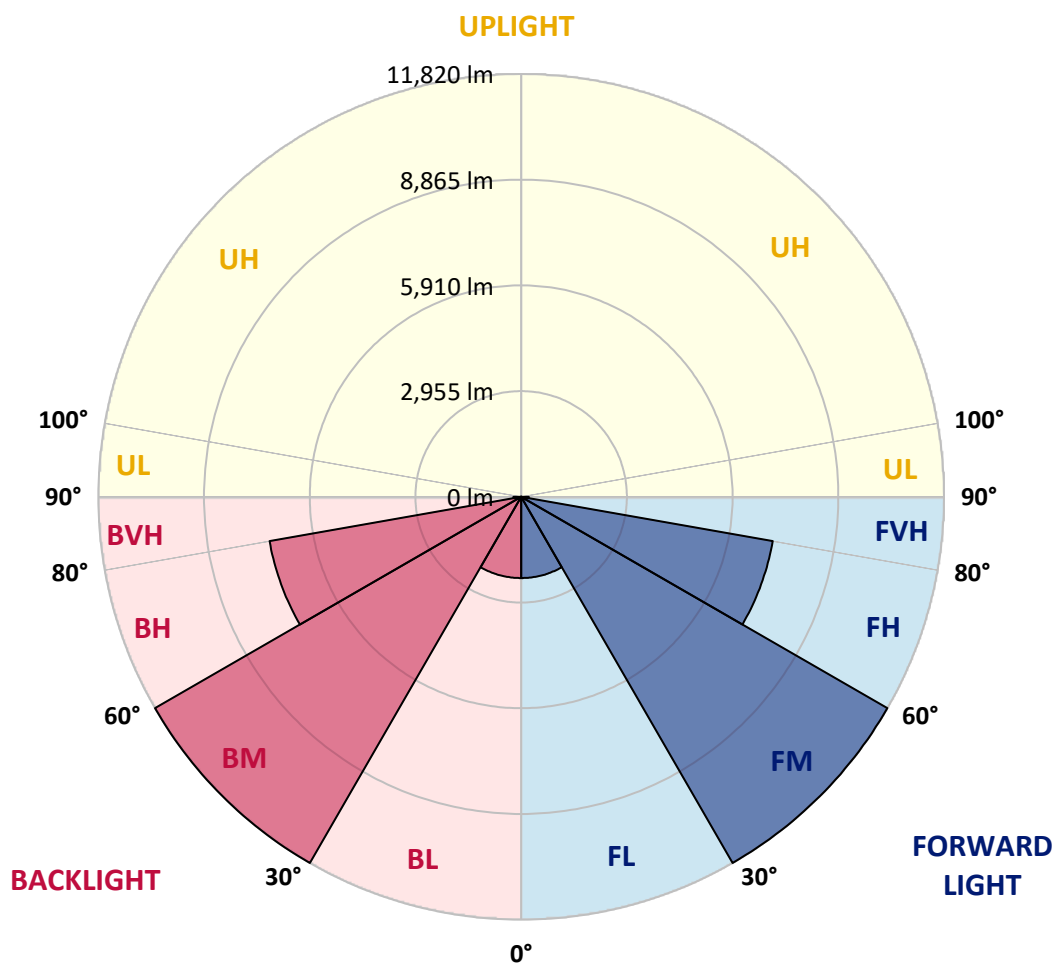
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2271.2	5.3			
FM	(30°-60°)	11819.6	27.6			
FH	(60°-80°)	7140.6	16.6			G3/7500
FVH	(80°-90°)	213.9	0.5			G2/225
BL	(0°-30°)	2271.2	5.3	B3/2500		
BM	(30°-60°)	11819.6	27.6	B5		
BH	(60°-80°)	7140.6	16.6	B5		G5
BVH	(80°-90°)	213.9	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4757.6	4757.6	4757.6	4757.6	4757.6	4757.6	4757.6	4757.6	4757.6	4757.6	4757.6
2.5°	4749.5	4745.4	4749.5	4747.5	4751.5	4751.5	4755.6	4763.7	4763.7	4769.8	4767.7
5°	4702.9	4700.8	4706.9	4713.0	4719.1	4731.2	4743.4	4761.6	4775.8	4786.0	4796.1
7.5°	4611.6	4611.6	4619.7	4633.9	4648.1	4674.5	4702.9	4739.3	4775.8	4806.2	4832.6
10°	4536.6	4540.7	4550.8	4575.2	4599.5	4640.0	4678.5	4731.2	4781.9	4832.6	4873.1
12.5°	4492.0	4498.1	4516.4	4552.9	4593.4	4648.1	4706.9	4773.8	4830.6	4891.4	4931.9
15°	4506.2	4510.3	4536.6	4581.2	4633.9	4702.9	4781.9	4861.0	4927.9	4992.7	5047.5
17.5°	4585.3	4591.4	4621.8	4672.5	4727.2	4808.3	4893.4	4982.6	5065.7	5138.7	5205.6
20°	4727.2	4733.3	4771.8	4826.5	4891.4	4974.5	5059.6	5152.9	5246.1	5323.2	5398.2
22.5°	4927.9	4938.0	4974.5	5029.2	5102.2	5191.4	5292.7	5392.1	5481.3	5552.2	5619.1
25°	5191.4	5213.7	5248.1	5309.0	5386.0	5467.1	5576.5	5677.9	5763.0	5829.9	5878.6
27.5°	5564.4	5594.8	5621.1	5679.9	5754.9	5832.0	5941.4	6030.6	6111.7	6176.6	6213.0
30°	6059.0	6089.4	6115.7	6172.5	6241.4	6314.4	6417.8	6496.8	6547.5	6598.2	6596.2
32.5°	6659.0	6691.4	6701.6	6762.4	6833.3	6912.4	7005.6	7050.2	7090.8	7096.9	7060.4
35°	7330.0	7346.2	7386.7	7467.8	7548.9	7613.8	7703.0	7725.3	7725.3	7694.9	7613.8
37.5°	8065.8	8075.9	8132.7	8223.9	8307.0	8373.9	8434.7	8479.3	8457.0	8392.2	8256.4
40°	8872.6	8890.8	8971.9	9053.0	9146.3	9209.1	9274.0	9282.1	9259.8	9164.5	8980.0
42.5°	9642.9	9659.1	9740.2	9867.9	9989.5	10076.7	10137.5	10149.7	10078.7	9991.6	9762.5
45°	10305.8	10348.3	10453.7	10603.7	10780.1	10903.7	10986.9	11021.3	10958.5	10845.0	10579.4
47.5°	10830.8	10873.3	11023.3	11201.7	11420.7	11621.3	11759.2	11832.2	11815.9	11730.8	11440.9
50°	11215.9	11256.5	11418.6	11637.6	11893.0	12142.3	12377.4	12551.8	12612.6	12574.1	12308.5
52.5°	11260.5	11327.4	11518.0	11811.9	12144.3	12484.9	12819.3	13115.3	13316.0	13346.4	13149.8
55°	10638.2	10705.1	10968.6	11404.4	11899.0	12454.5	12989.6	13488.3	13883.6	14086.3	13982.9
57.5°	9170.6	9290.2	9567.9	10078.7	10806.4	11637.6	12491.0	13376.8	14181.6	14718.7	14822.1
60°	7027.9	7169.8	7449.6	7992.8	8803.7	9794.9	10934.2	12243.7	13664.6	14872.8	15594.4
62.5°	4508.3	4642.0	4936.0	5408.3	6069.1	7143.5	8365.8	9920.6	11830.1	13737.6	15456.6
65°	2317.0	2389.9	2544.0	2829.8	3344.7	4147.4	5244.1	6794.8	8978.0	11331.5	13816.7
67.5°	1467.6	1481.8	1516.3	1556.8	1688.6	1966.3	2477.1	3444.0	5240.0	7694.9	10603.7
70°	1269.0	1269.0	1252.7	1246.7	1262.9	1301.4	1380.5	1605.5	2211.6	3652.8	6115.7
72.5°	1161.5	1149.4	1121.0	1098.7	1094.6	1094.6	1110.8	1145.3	1242.6	1487.9	2394.0
75°	1070.3	1035.8	997.3	971.0	960.8	950.7	948.7	954.8	975.0	1013.5	1143.3
77.5°	958.8	914.2	869.6	843.3	831.1	816.9	804.8	790.6	780.4	792.6	849.4
80°	825.0	774.4	739.9	723.7	711.5	691.2	664.9	640.6	618.3	614.2	648.7
82.5°	664.9	606.1	608.1	614.2	591.9	563.5	535.2	508.8	470.3	450.0	470.3
85°	537.2	506.8	492.6	531.1	498.7	456.1	411.5	364.9	304.1	255.4	277.7
87.5°	208.8	208.8	312.2	480.4	431.8	352.7	302.0	257.4	160.1	123.7	125.7
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°	4757.6	4757.6	4757.6	4757.6	4757.6	4757.6	4757.6	4757.6
2.5°	4765.7	4769.8	4767.7	4765.7	4765.7	4763.7	4765.7	4765.7
5°	4802.2	4812.3	4812.3	4816.4	4816.4	4818.4	4820.4	4818.4
7.5°	4856.9	4875.2	4887.3	4901.5	4903.5	4905.6	4909.6	4905.6
10°	4911.7	4948.1	4974.5	5000.8	5013.0	5017.1	5021.1	5021.1
12.5°	4980.6	5031.2	5077.9	5124.5	5146.8	5159.0	5159.0	5167.1
15°	5094.1	5144.8	5199.5	5262.3	5300.9	5321.1	5327.2	5327.2
17.5°	5254.2	5298.8	5345.4	5406.3	5454.9	5481.3	5487.3	5485.3
20°	5440.7	5483.3	5509.6	5548.2	5590.7	5621.1	5629.2	5629.2
22.5°	5653.6	5677.9	5681.9	5694.1	5728.6	5769.1	5787.4	5791.4
25°	5888.7	5894.8	5878.6	5878.6	5900.9	5939.4	5957.6	5959.7
27.5°	6192.8	6162.4	6121.8	6107.6	6121.8	6166.4	6188.7	6196.8
30°	6571.8	6498.9	6405.6	6354.9	6346.8	6405.6	6446.2	6452.2
32.5°	7005.6	6900.2	6776.6	6673.2	6646.8	6683.3	6732.0	6730.0
35°	7520.5	7394.8	7244.8	7113.1	7052.3	7088.8	7157.7	7165.8
37.5°	8114.5	7950.3	7778.0	7611.7	7516.5	7526.6	7599.6	7623.9
40°	8777.3	8564.5	8347.6	8124.6	7988.8	7962.4	8051.6	8065.8
42.5°	9486.8	9213.1	8939.5	8663.8	8489.5	8448.9	8552.3	8546.2
45°	10242.9	9894.3	9574.0	9269.9	9063.1	9002.3	9087.5	9087.5
47.5°	11055.8	10626.0	10244.9	9900.3	9675.3	9588.2	9669.2	9675.3
50°	11917.3	11461.2	11013.2	10630.1	10360.5	10249.0	10354.4	10370.6
52.5°	12774.8	12330.8	11878.8	11440.9	11114.6	10978.7	11100.4	11153.1
55°	13644.4	13208.6	12776.8	12349.1	11961.9	11801.7	11931.5	11998.4
57.5°	14562.7	14159.3	13747.8	13316.0	12943.0	12693.7	12831.5	12920.7
60°	15639.0	15294.4	14866.7	14390.3	14013.3	13759.9	13839.0	13918.0
62.5°	16490.4	16624.2	16261.4	15710.0	15225.5	14901.2	14978.2	15061.3
65°	16078.9	17451.3	17773.6	17216.1	16545.1	16040.4	16008.0	16050.5
67.5°	13439.6	16105.3	18049.3	18580.4	18018.8	17317.5	17187.7	17250.6
70°	8990.2	12310.5	15740.4	18294.5	18973.6	18702.0	18574.3	18612.8
72.5°	4317.7	7169.8	10678.7	14074.1	16141.8	17090.4	17394.5	17542.5
75°	1579.1	2846.0	5146.8	7755.7	9363.2	10838.9	11801.7	12195.0
77.5°	952.7	1149.4	1644.0	2475.1	2803.5	3137.9	3008.2	3073.1
80°	705.4	796.6	902.1	1013.5	1050.0	1050.0	1009.5	977.1
82.5°	494.6	553.4	604.1	664.9	681.1	650.7	535.2	425.7
85°	318.3	344.6	366.9	405.4	395.3	377.0	253.4	225.0
87.5°	146.0	166.2	174.3	192.6	184.5	176.4	125.7	105.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)