

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: P192578

Luminaire Tested: **GLEON-AF-10-LED-E1-5NQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192578
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-10-LED-E1-5NQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38727 lumens
Efficiency: N/A
Efficacy: 119.9 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 - G3

Input Watts (W): 323
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

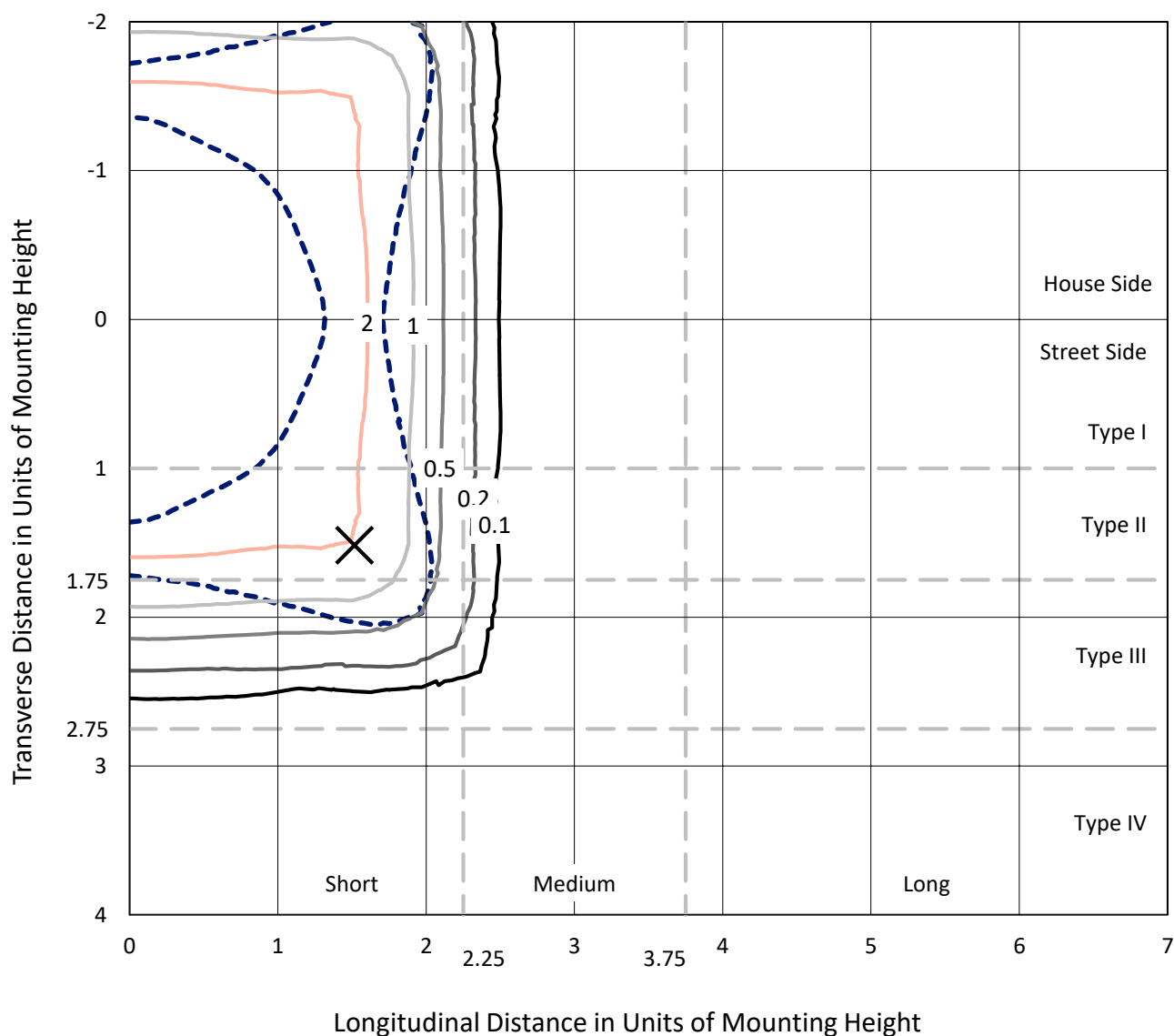


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

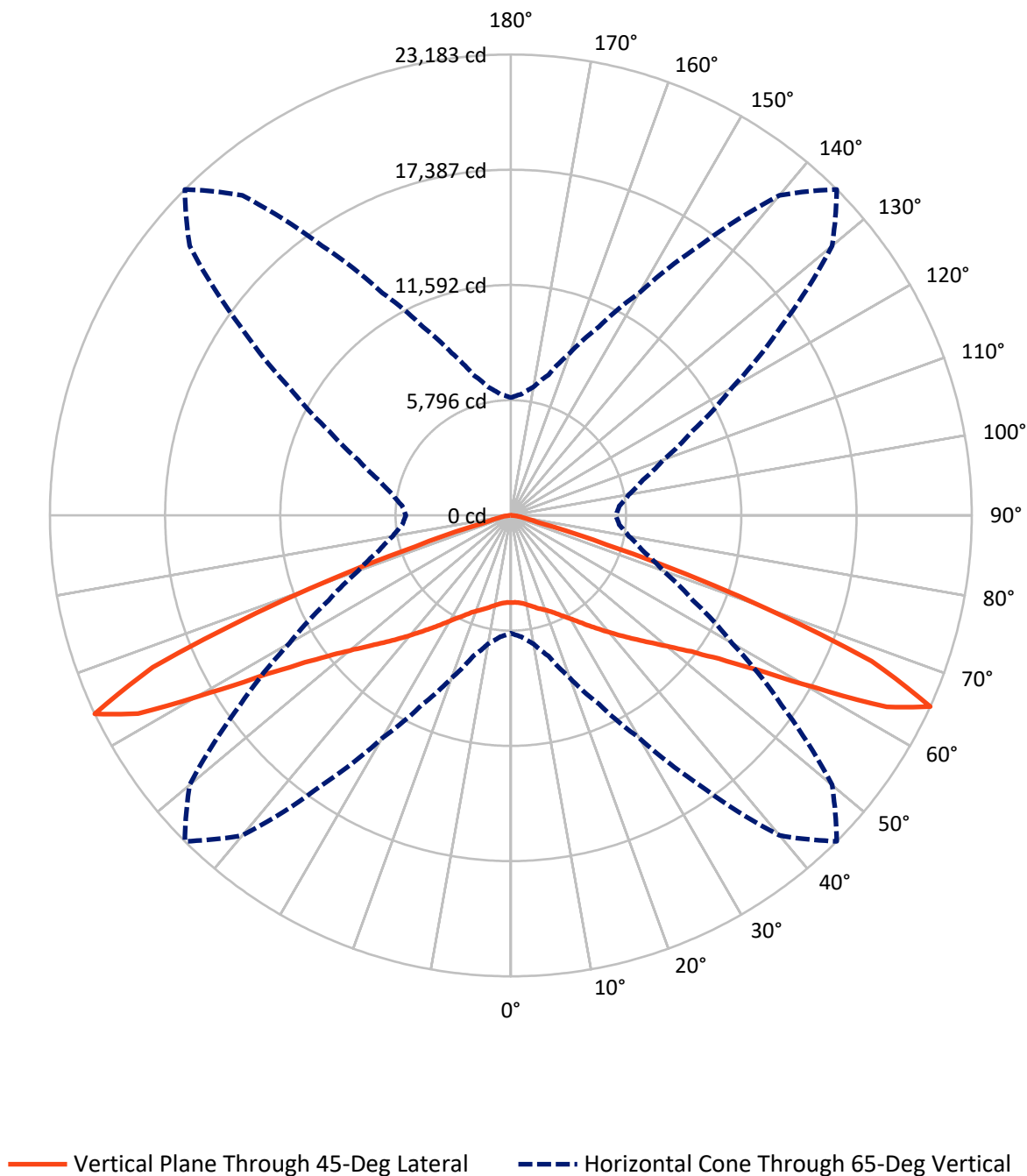


Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19363.5	0.0	19363.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19363.5	0.0	19363.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38727.0	0.0	38727.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.1	1.1
10°-20°	1369.8	3.5
20°-30°	2561.3	6.6
30°-40°	4331.8	11.2
40°-50°	7082.9	18.3
50°-60°	11263.0	29.1
60°-70°	10181.0	26.3
70°-80°	1288.5	3.3
80°-90°	221.6	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°	38727.0	100.0
0°-180°	38727.0	100.0

Coefficient of Utilization



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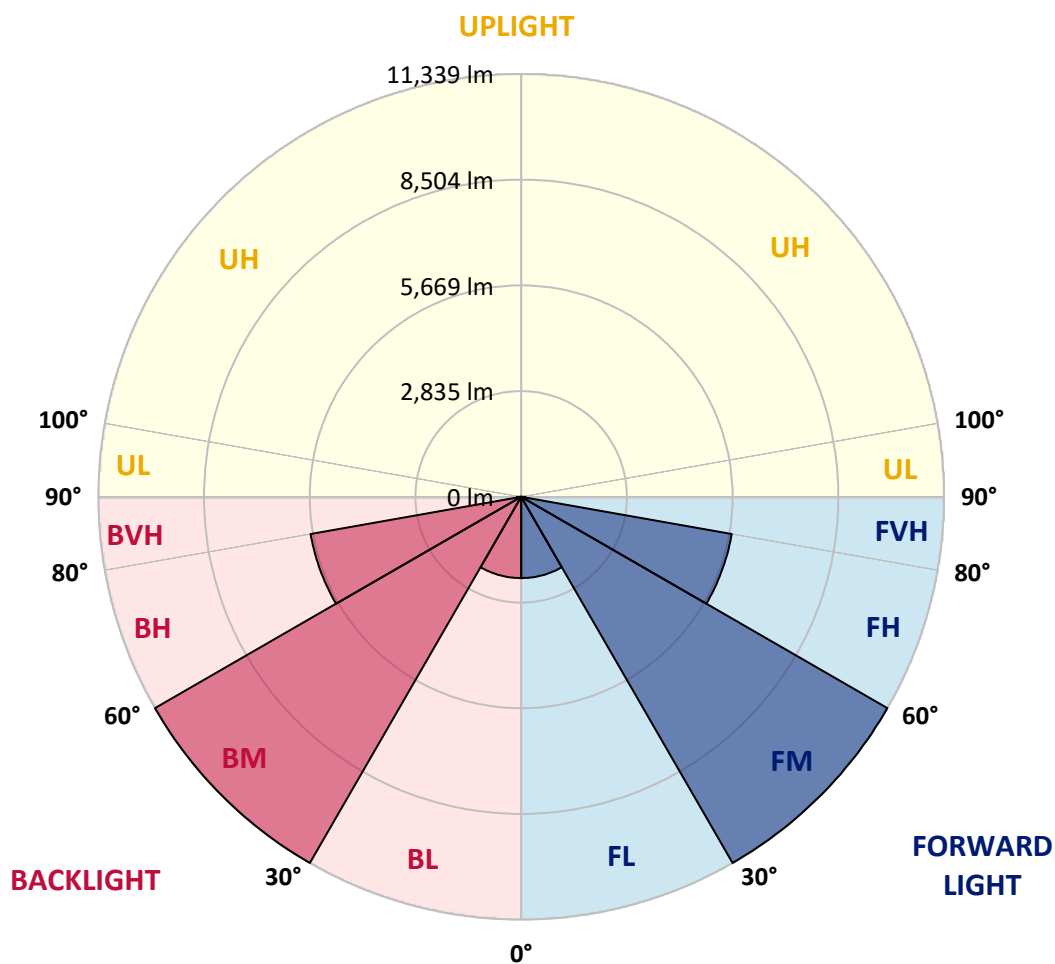
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2179.1	5.6			
FM	(30°-60°)	11338.9	29.3			
FH	(60°-80°)	5734.7	14.8			G3/7500
FVH	(80°-90°)	110.8	0.3			G2/225
BL	(0°-30°)	2179.1	5.6	B3/2500		
BM	(30°-60°)	11338.9	29.3	B5		
BH	(60°-80°)	5734.7	14.8	B5		G3/7500
BVH	(80°-90°)	110.8	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-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0
2.5°	4385.5	4389.3	4392.9	4389.3	4392.9	4387.5	4383.8	4389.3	4383.8	4378.3	4382.0
5°	4423.7	4425.5	4425.5	4420.1	4425.5	4421.8	4416.5	4423.7	4418.2	4412.8	4416.5
7.5°	4487.2	4494.4	4489.0	4483.6	4487.2	4483.6	4479.9	4481.7	4479.9	4474.5	4476.3
10°	4572.4	4577.9	4574.2	4572.4	4576.0	4574.2	4570.7	4568.7	4570.7	4565.2	4565.2
12.5°	4675.8	4674.0	4672.2	4674.0	4679.5	4679.5	4677.6	4679.5	4683.1	4684.8	4681.2
15°	4777.4	4780.9	4780.9	4780.9	4791.9	4801.0	4806.5	4810.0	4817.2	4819.1	4811.8
17.5°	4904.3	4904.3	4902.5	4904.3	4915.2	4929.7	4935.1	4942.5	4949.7	4955.1	4946.0
20°	5045.8	5049.4	5049.4	5053.0	5067.6	5084.0	5084.0	5087.5	5084.0	5087.5	5082.0
22.5°	5218.1	5229.0	5229.0	5230.8	5245.3	5265.3	5259.8	5265.3	5256.3	5263.4	5256.3
25°	5443.0	5459.3	5455.8	5455.8	5466.6	5479.3	5481.1	5492.0	5490.2	5499.2	5493.8
27.5°	5696.9	5722.4	5729.5	5727.8	5735.0	5747.7	5751.3	5764.1	5756.8	5764.1	5760.3
30°	6001.6	6012.5	6027.1	6032.4	6041.5	6054.3	6054.3	6056.0	6047.0	6057.9	6063.4
32.5°	6317.3	6337.1	6351.7	6384.3	6400.6	6409.7	6407.9	6411.6	6402.5	6417.1	6427.8
35°	6734.4	6749.0	6772.4	6797.9	6819.6	6817.8	6812.5	6814.2	6814.2	6826.8	6837.8
37.5°	7236.8	7240.4	7271.2	7307.5	7318.4	7307.5	7274.9	7267.6	7251.3	7267.6	7285.7
40°	7768.3	7780.9	7842.5	7866.1	7871.6	7851.6	7804.5	7777.3	7741.0	7760.9	7786.4
42.5°	8325.0	8350.4	8406.6	8448.4	8466.5	8453.8	8388.5	8346.8	8299.7	8310.5	8335.9
45°	8941.7	8972.5	9052.3	9092.2	9126.7	9106.8	9043.3	8979.8	8905.4	8910.8	8950.7
47.5°	9630.8	9661.8	9765.1	9832.2	9850.4	9846.8	9776.0	9689.0	9587.4	9583.7	9618.2
50°	10403.5	10434.4	10563.1	10666.6	10719.1	10713.8	10630.3	10506.9	10383.6	10385.4	10428.9
52.5°	11158.1	11196.2	11330.4	11508.2	11611.5	11685.9	11635.1	11518.9	11368.4	11372.1	11412.0
55°	11865.4	11928.9	12083.1	12324.3	12516.5	12725.1	12785.0	12781.3	12690.7	12716.0	12756.0
57.5°	12208.2	12302.6	12540.1	12921.0	13312.8	13737.1	14096.3	14364.8	14479.0	14651.3	14611.5
60°	11558.9	11709.5	12059.5	12620.0	13394.4	14279.5	15228.1	16154.8	16945.7	17542.4	17199.6
62.5°	9464.0	9659.9	10084.3	10802.6	11974.3	13390.9	15206.3	17397.4	19784.2	21224.2	20195.9
65°	5921.9	6125.0	6556.6	7325.7	8696.8	10458.0	12921.0	16552.1	21012.0	23183.0	21090.1
67.5°	2308.8	2419.5	2653.5	3145.0	4175.3	5742.2	8214.4	12335.2	17669.4	19571.9	17341.1
70°	1157.2	1168.1	1211.5	1302.3	1523.5	1978.8	3010.7	5718.7	10133.4	12239.0	9768.8
72.5°	836.2	837.9	859.8	899.6	970.3	1072.0	1267.9	1750.3	3295.6	5036.8	3088.8
75°	640.3	647.5	660.2	682.0	720.0	770.9	841.7	1008.5	1249.7	1449.3	1218.8
77.5°	493.3	507.8	516.9	536.9	560.4	594.9	614.8	678.3	789.0	830.7	818.1
80°	375.5	388.1	408.1	424.4	440.8	457.0	449.8	478.8	536.9	571.3	553.2
82.5°	239.4	253.9	311.9	326.4	333.7	344.6	331.9	333.7	359.1	380.9	359.1
85°	154.2	163.3	197.6	215.8	217.7	224.8	219.5	206.7	206.7	188.6	212.2
87.5°	70.7	72.5	88.8	105.2	108.8	97.9	96.1	92.6	74.4	70.7	76.2
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°	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0
2.5°	4380.2	4383.8	4385.5	4391.0	4392.9	4392.9	4394.6	4398.3
5°	4414.6	4420.1	4421.8	4429.2	4430.9	4429.2	4432.7	4434.7
7.5°	4476.3	4485.3	4489.0	4496.2	4490.8	4498.1	4499.9	4499.9
10°	4566.9	4576.0	4577.9	4585.1	4581.5	4585.1	4585.1	4581.5
12.5°	4686.6	4688.6	4683.1	4688.6	4681.2	4684.8	4679.5	4675.8
15°	4819.1	4813.6	4801.0	4801.0	4790.0	4791.9	4790.0	4788.3
17.5°	4947.8	4937.0	4927.9	4924.4	4915.2	4913.4	4907.9	4907.9
20°	5089.3	5084.0	5078.5	5071.2	5062.1	5053.0	5051.3	5054.9
22.5°	5259.8	5258.0	5258.0	5254.4	5241.7	5232.7	5227.2	5227.2
25°	5488.3	5472.0	5472.0	5470.2	5464.8	5459.3	5448.4	5453.9
27.5°	5746.0	5736.8	5744.1	5742.2	5736.8	5736.8	5729.5	5729.5
30°	6063.4	6059.6	6070.6	6061.4	6043.3	6041.5	6034.3	6025.2
32.5°	6429.7	6426.1	6442.4	6431.4	6402.5	6386.1	6371.7	6364.4
35°	6837.8	6839.6	6859.6	6852.3	6819.6	6808.7	6783.4	6779.7
37.5°	7284.0	7312.9	7347.4	7354.7	7327.5	7320.3	7293.0	7278.6
40°	7808.1	7846.2	7898.8	7911.5	7882.5	7877.0	7839.0	7819.0
42.5°	8366.7	8432.1	8497.3	8508.2	8479.2	8450.2	8413.9	8399.5
45°	8990.6	9068.6	9153.8	9175.7	9132.1	9097.7	9050.5	9050.5
47.5°	9690.8	9788.7	9884.8	9944.7	9904.8	9868.6	9812.2	9776.0
50°	10517.9	10652.0	10777.3	10838.8	10775.3	10706.5	10608.5	10575.9
52.5°	11555.3	11700.3	11809.2	11776.5	11678.6	11582.5	11475.5	11431.9
55°	12879.3	12928.3	12928.3	12804.9	12609.1	12447.7	12279.0	12222.8
57.5°	14535.2	14346.7	14056.4	13688.2	13225.8	12823.1	12551.0	12422.2
60°	16481.3	15574.5	14549.7	13543.1	12716.0	12034.2	11629.7	11444.7
62.5°	17778.2	15405.9	13352.7	11736.6	10546.8	9725.2	9166.7	8949.0
65°	16615.6	12848.5	10098.9	8165.4	6868.6	6032.4	5479.3	5276.1
67.5°	12170.2	8051.2	5377.7	3854.2	2824.1	2252.7	2025.8	1931.6
70°	5463.0	2834.8	1737.5	1356.7	1169.8	1073.7	1032.1	1017.5
72.5°	1646.9	1191.6	1004.8	906.9	832.5	785.3	750.9	747.3
75°	993.9	827.1	734.6	676.6	629.4	591.3	573.2	567.7
77.5°	694.7	607.6	564.1	522.4	486.1	457.0	440.8	428.1
80°	487.9	446.3	426.2	402.6	379.0	351.9	328.4	317.4
82.5°	326.4	317.4	317.4	302.8	283.0	257.6	210.5	199.5
85°	210.5	208.5	212.2	206.7	192.3	165.1	136.0	128.8
87.5°	97.9	99.8	110.7	108.8	105.2	87.1	69.0	65.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)