

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: P299373

Luminaire Tested: **GLNA-AF-07-LED-E1-5NQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299373
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: GLNA-AF-07-LED-E1-5NQ-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35320.1 lumens
Efficiency: N/A
Efficacy: 90.3 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



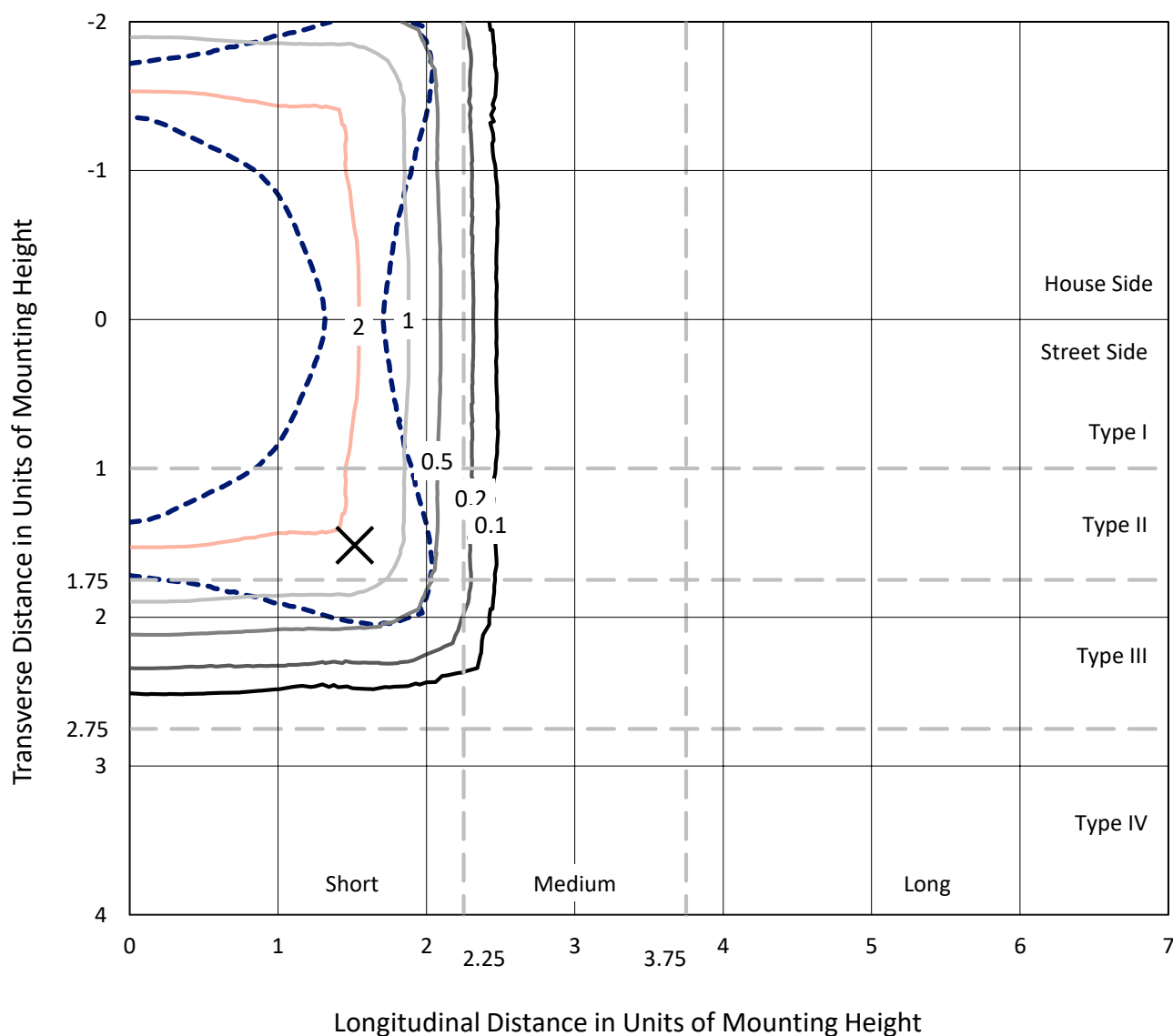
REPORT NUMBER: P299373

CATALOG NUMBER: GLNA-AF-07-LED-E1-5NQ-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

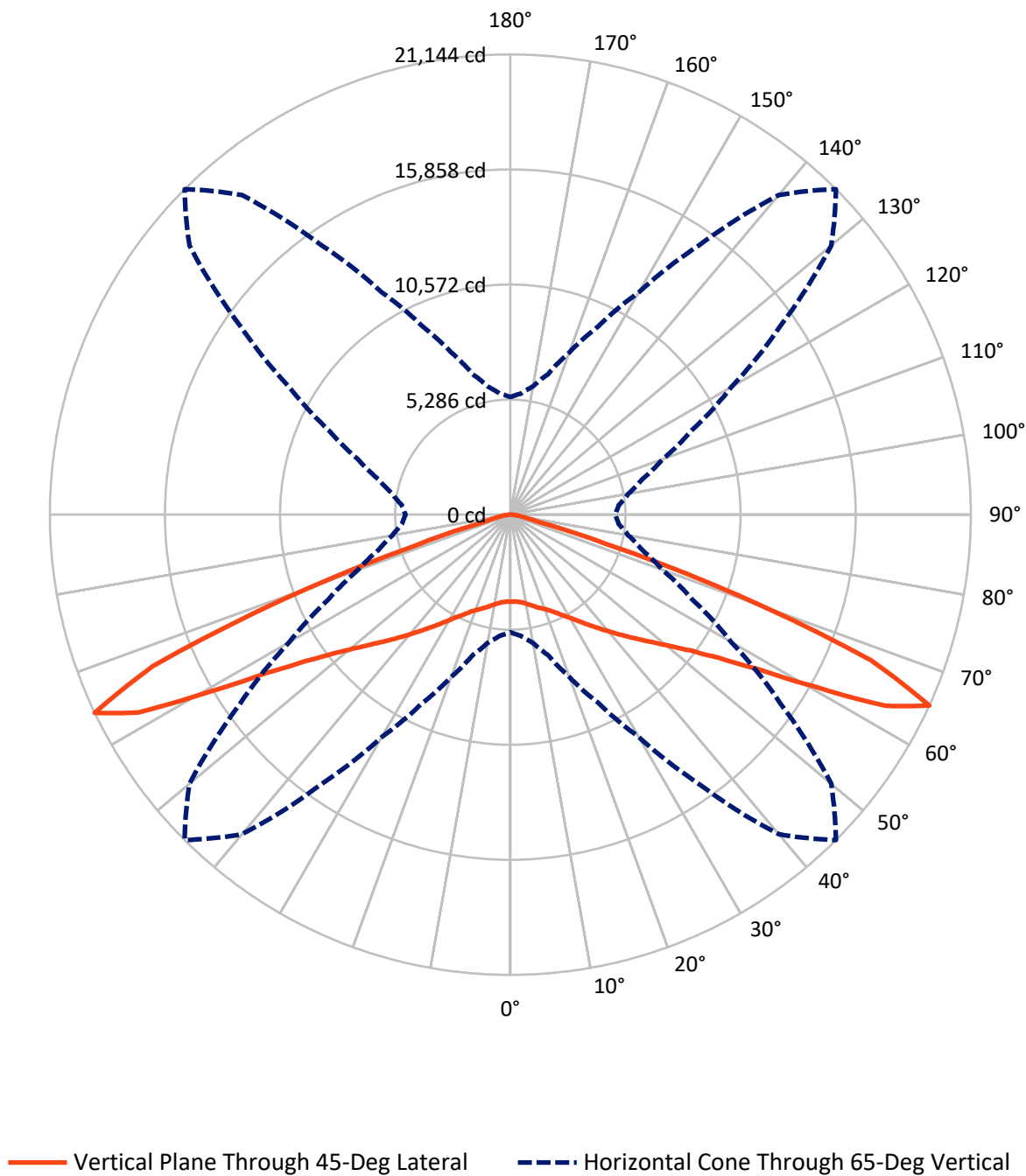


Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P299373

CATALOG NUMBER: GLNA-AF-07-LED-E1-5NQ-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P299373

CATALOG NUMBER: GLNA-AF-07-LED-E1-5NQ-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17660.0	0.0	17660.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17660.0	0.0	17660.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35320.1	0.0	35320.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.5	1.1
10°-20°	1249.3	3.5
20°-30°	2335.9	6.6
30°-40°	3950.7	11.2
40°-50°	6459.8	18.3
50°-60°	10272.2	29.1
60°-70°	9285.4	26.3
70°-80°	1175.1	3.3
80°-90°	202.1	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°	35320.1	100.0
0°-180°	35320.1	100.0

Coefficient of Utilization



REPORT NUMBER: P299373

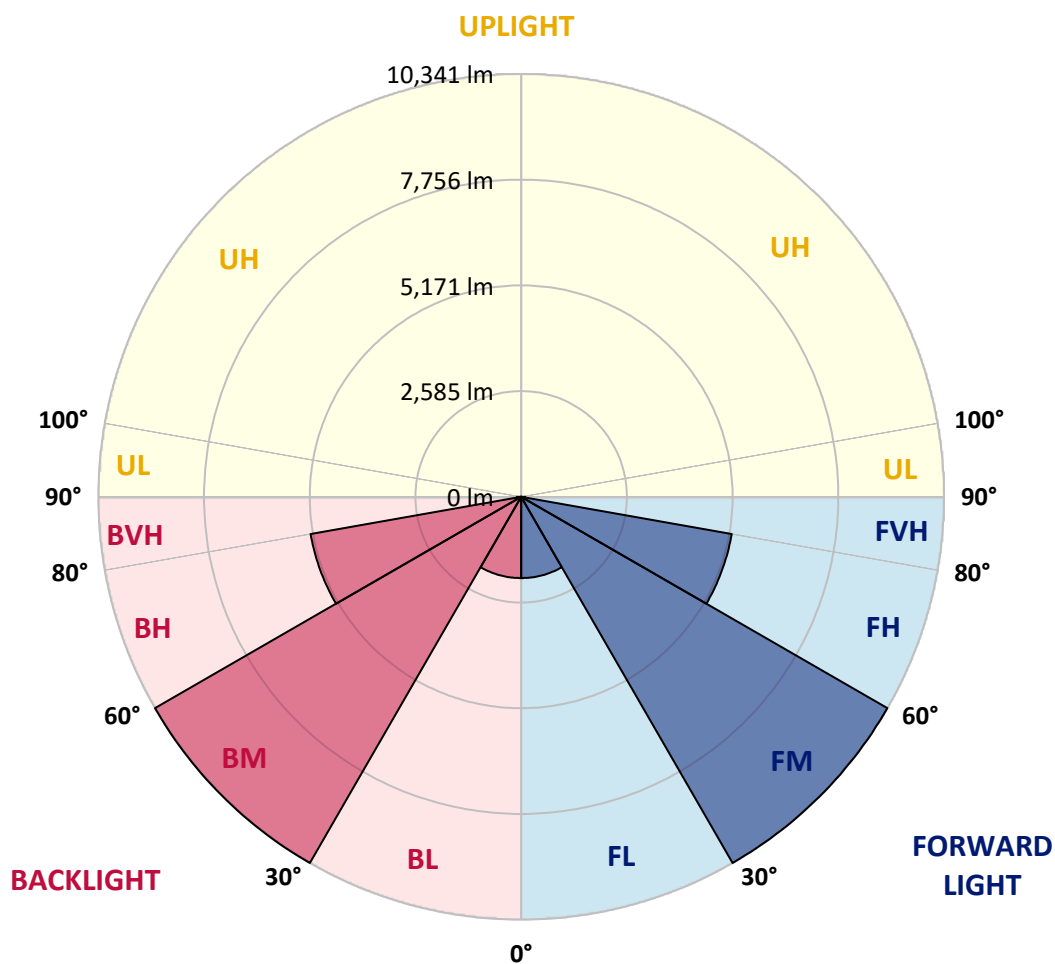
CATALOG NUMBER: GLNA-AF-07-LED-E1-5NQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1987.4	5.6			
FM	(30°-60°)	10341.4	29.3			
FH	(60°-80°)	5230.2	14.8			G3/7500
FVH	(80°-90°)	101.1	0.3			G2/225
BL	(0°-30°)	1987.4	5.6	B3/2500		
BM	(30°-60°)	10341.4	29.3	B5		
BH	(60°-80°)	5230.2	14.8	B5		G3/7500
BVH	(80°-90°)	101.1	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



REPORT NUMBER: P299373

CATALOG NUMBER: GLNA-AF-07-LED-E1-5NQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5
2.5°	3999.8	4003.1	4006.4	4003.1	4006.4	4001.4	3998.1	4003.1	3998.1	3993.2	3996.5
5°	4034.5	4036.2	4036.2	4031.2	4036.2	4032.9	4027.9	4034.5	4029.6	4024.6	4027.9
7.5°	4092.4	4099.0	4094.1	4089.1	4092.4	4089.1	4085.8	4087.5	4085.8	4080.8	4082.5
10°	4170.2	4175.1	4171.8	4170.2	4173.5	4171.8	4168.5	4166.9	4168.5	4163.6	4163.6
12.5°	4264.5	4262.8	4261.2	4262.8	4267.8	4267.8	4266.1	4267.8	4271.1	4272.7	4269.4
15°	4357.1	4360.4	4360.4	4360.4	4370.3	4378.6	4383.6	4386.9	4393.5	4395.1	4388.5
17.5°	4472.9	4472.9	4471.2	4472.9	4482.8	4496.0	4501.0	4507.6	4514.2	4519.2	4510.9
20°	4601.9	4605.2	4605.2	4608.5	4621.8	4636.7	4636.7	4640.0	4636.7	4640.0	4635.0
22.5°	4759.1	4769.0	4769.0	4770.6	4783.9	4802.1	4797.1	4802.1	4793.8	4800.4	4793.8
25°	4964.2	4979.1	4975.8	4975.8	4985.7	4997.3	4998.9	5008.8	5007.2	5015.5	5010.5
27.5°	5195.8	5218.9	5225.5	5223.9	5230.5	5242.1	5245.4	5257.0	5250.3	5257.0	5253.7
30°	5473.7	5483.6	5496.8	5501.8	5510.1	5521.6	5521.6	5523.3	5515.0	5524.9	5529.9
32.5°	5761.5	5779.7	5792.9	5822.7	5837.6	5845.9	5844.2	5847.5	5839.2	5852.5	5862.4
35°	6141.9	6155.2	6176.7	6199.8	6219.7	6218.0	6213.1	6214.7	6214.7	6226.3	6236.2
37.5°	6600.2	6603.5	6631.6	6664.7	6674.6	6664.7	6634.9	6628.3	6613.4	6628.3	6644.8
40°	7084.8	7096.4	7152.6	7174.2	7179.1	7160.9	7117.9	7093.1	7060.0	7078.2	7101.4
42.5°	7592.7	7615.8	7667.1	7705.1	7721.7	7710.1	7650.6	7612.5	7569.5	7579.4	7602.6
45°	8155.1	8183.2	8256.0	8292.4	8323.8	8305.6	8247.7	8189.8	8122.0	8127.0	8163.3
47.5°	8783.7	8811.8	8906.1	8967.3	8983.8	8980.5	8916.0	8836.6	8744.0	8740.7	8772.1
50°	9488.3	9516.5	9633.9	9728.2	9776.2	9771.2	9695.1	9582.6	9470.1	9471.8	9511.5
52.5°	10176.5	10211.2	10333.6	10495.7	10590.0	10657.8	10611.5	10505.7	10368.4	10371.7	10408.1
55°	10821.6	10879.5	11020.1	11240.1	11415.5	11605.7	11660.3	11657.0	11574.3	11597.4	11633.8
57.5°	11134.2	11220.3	11437.0	11784.3	12141.6	12528.7	12856.2	13101.1	13205.3	13362.4	13326.0
60°	10542.1	10679.3	10998.6	11509.7	12216.1	13023.3	13888.4	14733.7	15455.0	15999.2	15686.5
62.5°	8631.5	8810.1	9197.2	9852.3	10920.9	12212.8	13868.6	15866.8	18043.7	19357.1	18419.2
65°	5400.9	5586.1	5979.8	6681.2	7931.8	9538.0	11784.3	15096.0	19163.6	21143.7	19234.7
67.5°	2105.8	2206.7	2420.1	2868.3	3807.9	5237.1	7491.8	11250.0	16115.0	17850.2	15815.6
70°	1055.4	1065.3	1105.0	1187.7	1389.5	1804.7	2745.9	5215.6	9241.9	11162.4	8909.4
72.5°	762.6	764.2	784.1	820.5	885.0	977.6	1156.3	1596.3	3005.6	4593.6	2817.1
75°	583.9	590.5	602.1	622.0	656.7	703.0	767.5	919.7	1139.7	1321.7	1111.6
77.5°	449.9	463.2	471.4	489.6	511.1	542.6	560.8	618.7	719.6	757.6	746.0
80°	342.4	354.0	372.2	387.1	402.0	416.9	410.2	436.7	489.6	521.1	504.5
82.5°	218.4	231.6	284.5	297.8	304.4	314.3	302.7	304.4	327.5	347.4	327.5
85°	140.6	148.9	180.3	196.8	198.5	205.1	200.2	188.6	188.6	172.0	193.5
87.5°	64.5	66.2	81.1	95.9	99.3	89.3	87.7	84.4	67.8	64.5	69.5
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: P299373

CATALOG NUMBER: GLNA-AF-07-LED-E1-5NQ-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5
2.5°	3994.8	3998.1	3999.8	4004.8	4006.4	4006.4	4008.1	4011.4
5°	4026.3	4031.2	4032.9	4039.5	4041.1	4039.5	4042.8	4044.5
7.5°	4082.5	4090.8	4094.1	4100.7	4095.7	4102.4	4104.0	4104.0
10°	4165.2	4173.5	4175.1	4181.8	4178.4	4181.8	4181.8	4178.4
12.5°	4274.4	4276.0	4271.1	4276.0	4269.4	4272.7	4267.8	4264.5
15°	4395.1	4390.2	4378.6	4378.6	4368.7	4370.3	4368.7	4367.0
17.5°	4512.6	4502.7	4494.4	4491.1	4482.8	4481.2	4476.2	4476.2
20°	4641.6	4636.7	4631.7	4625.1	4616.8	4608.5	4606.9	4610.2
22.5°	4797.1	4795.5	4795.5	4792.1	4780.6	4772.3	4767.3	4767.3
25°	5005.5	4990.6	4990.6	4989.0	4984.0	4979.1	4969.1	4974.1
27.5°	5240.4	5232.2	5238.8	5237.1	5232.2	5232.2	5225.5	5225.5
30°	5529.9	5526.6	5536.5	5528.3	5511.7	5510.1	5503.4	5495.2
32.5°	5864.0	5860.7	5875.6	5865.7	5839.2	5824.3	5811.1	5804.5
35°	6236.2	6237.9	6256.1	6249.5	6219.7	6209.8	6186.6	6183.3
37.5°	6643.2	6669.6	6701.1	6707.7	6682.9	6676.2	6651.4	6638.2
40°	7121.2	7156.0	7203.9	7215.5	7189.0	7184.1	7149.3	7131.1
42.5°	7630.7	7690.3	7749.8	7759.7	7733.3	7706.8	7673.7	7660.5
45°	8199.7	8270.9	8348.6	8368.5	8328.8	8297.3	8254.3	8254.3
47.5°	8838.3	8927.6	9015.2	9069.8	9033.4	9000.4	8949.1	8916.0
50°	9592.6	9715.0	9829.1	9885.3	9827.4	9764.6	9675.3	9645.5
52.5°	10538.7	10671.1	10770.3	10740.6	10651.2	10563.6	10466.0	10426.3
55°	11746.3	11791.0	11791.0	11678.5	11499.8	11352.6	11198.8	11147.5
57.5°	13256.6	13084.5	12819.9	12484.1	12062.2	11695.0	11446.9	11329.4
60°	15031.5	14204.4	13269.8	12351.7	11597.4	10975.4	10606.6	10437.8
62.5°	16214.2	14050.6	12178.0	10704.2	9619.0	8869.7	8360.2	8161.7
65°	15153.9	11718.2	9210.4	7447.1	6264.4	5501.8	4997.3	4812.0
67.5°	11099.5	7342.9	4904.6	3515.1	2575.5	2054.5	1847.7	1761.7
70°	4982.4	2585.5	1584.7	1237.3	1066.9	979.3	941.2	928.0
72.5°	1502.0	1086.8	916.4	827.1	759.3	716.3	684.8	681.5
75°	906.5	754.3	669.9	617.0	574.0	539.3	522.7	517.8
77.5°	633.5	554.1	514.4	476.4	443.3	416.9	402.0	390.4
80°	445.0	406.9	388.7	367.2	345.7	320.9	299.4	289.5
82.5°	297.8	289.5	289.5	276.2	258.1	234.9	191.9	182.0
85°	191.9	190.2	193.5	188.6	175.3	150.5	124.1	117.4
87.5°	89.3	91.0	100.9	99.3	95.9	79.4	62.9	59.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)