

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: P269464

Luminaire Tested: **GLEON-AF-07-LED-E1-RW-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269464
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: GLEON-AF-07-LED-E1-RW-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41017.1 lumens
Efficiency: N/A
Efficacy: 91.6 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): 448
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

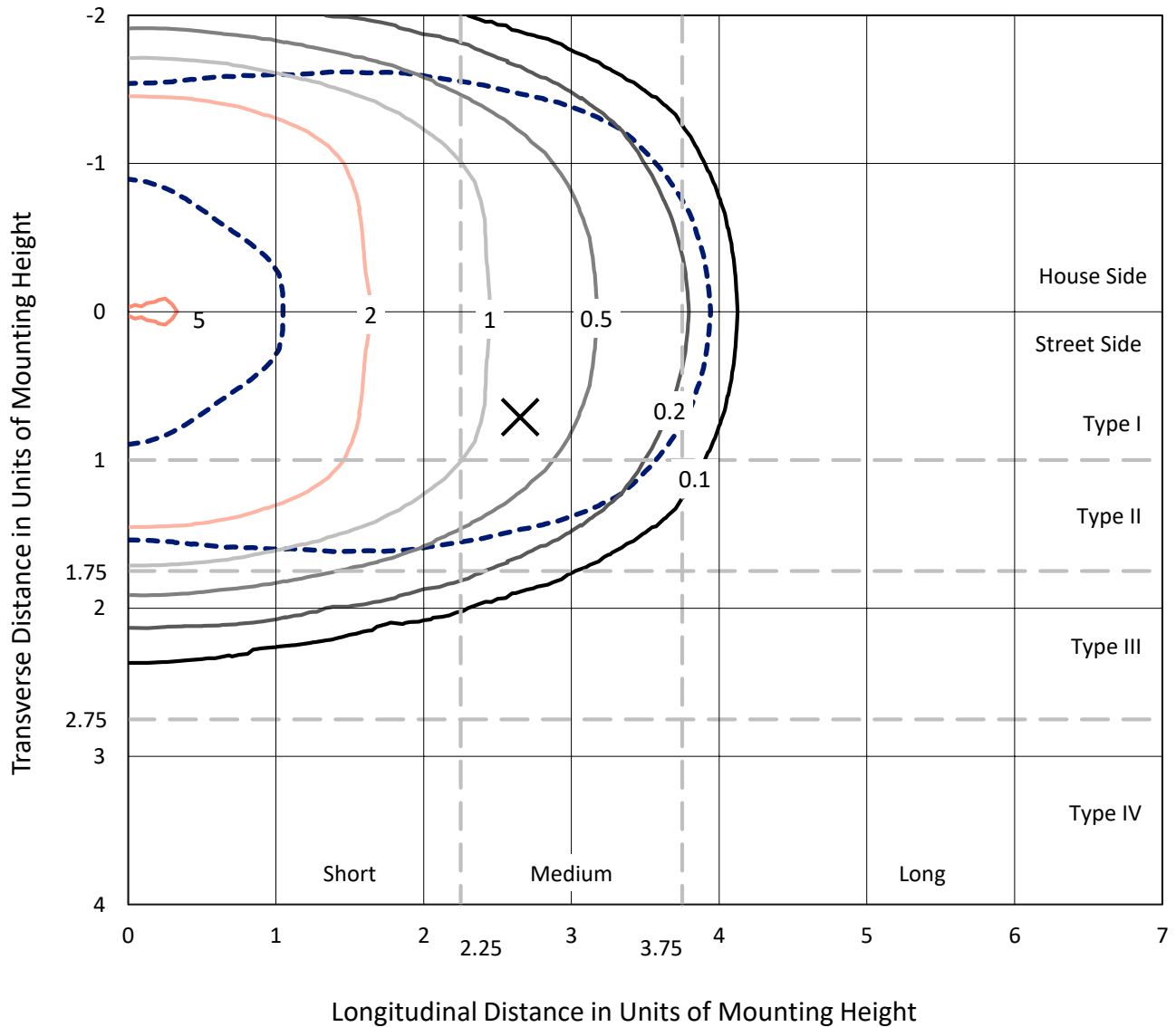


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

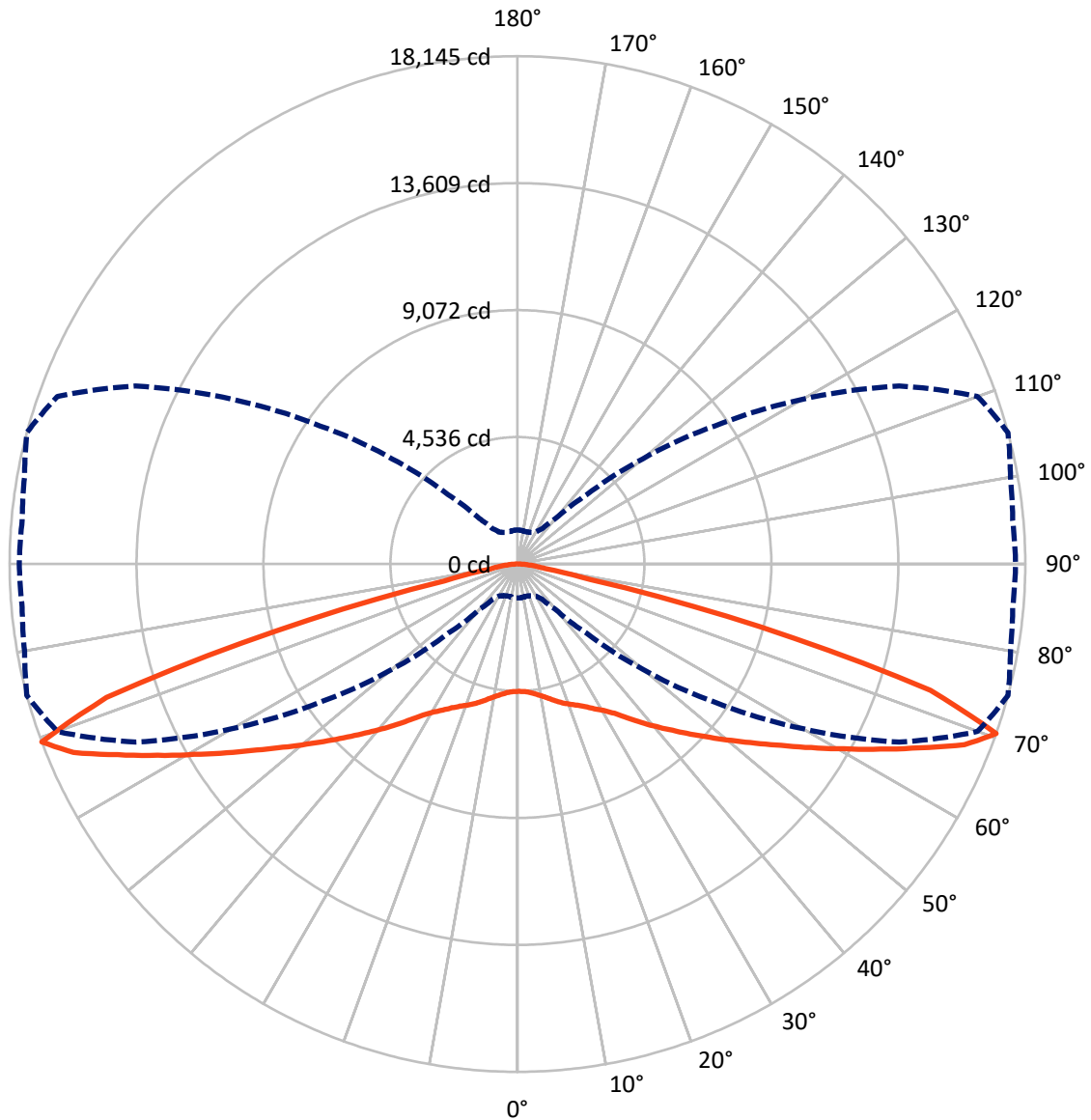


Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20508.5	0.0	20508.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20508.5	0.0	20508.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	41017.1	0.0	41017.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.4	1.1
10°-20°	1355.8	3.3
20°-30°	2551.9	6.2
30°-40°	4518.9	11.0
40°-50°	7557.0	18.4
50°-60°	10530.7	25.7
60°-70°	9765.5	23.8
70°-80°	3891.9	9.5
80°-90°	409.1	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°	41017.1	100.0
0°-180°	41017.1	100.0



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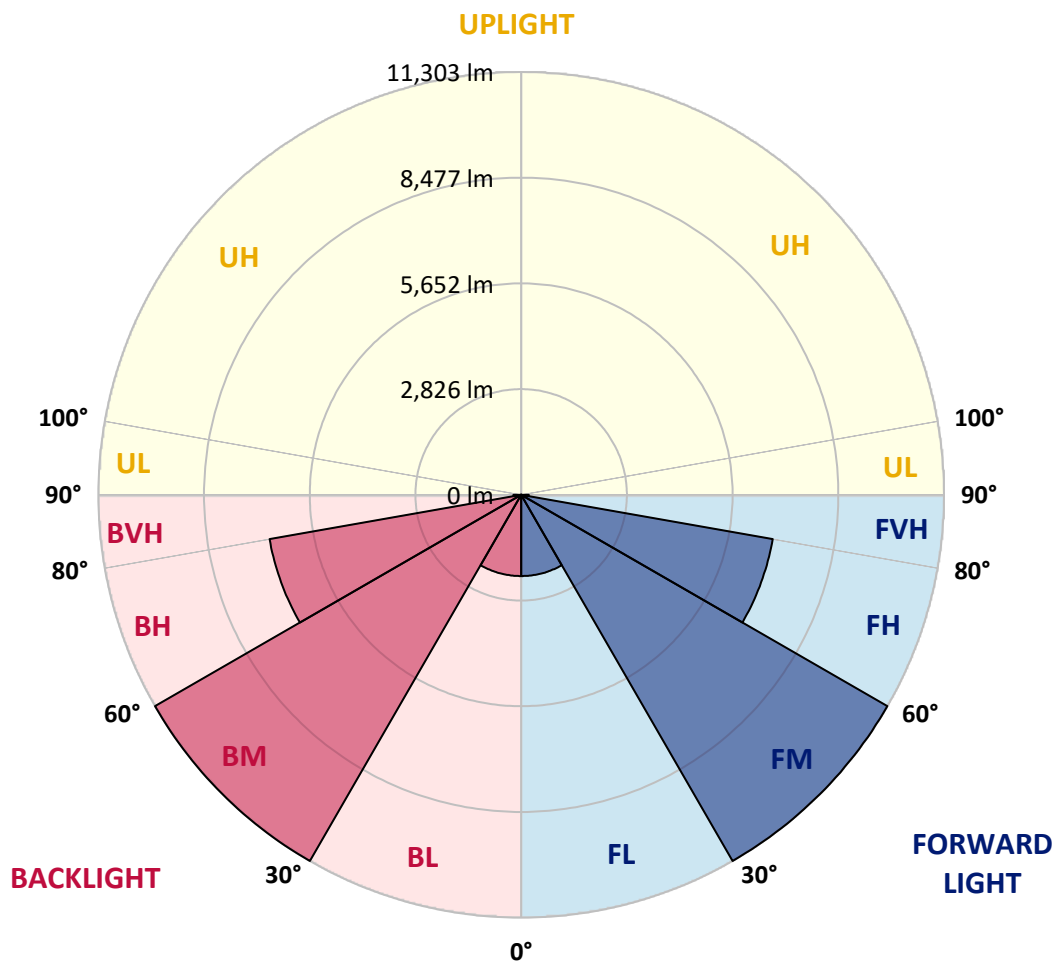
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2172.0	5.3			
FM	(30°-60°)	11303.3	27.6			
FH	(60°-80°)	6828.7	16.6			G3/7500
FVH	(80°-90°)	204.5	0.5			G2/225
BL	(0°-30°)	2172.0	5.3	B3/2500		
BM	(30°-60°)	11303.3	27.6	B5		
BH	(60°-80°)	6828.7	16.6	B5		G5
BVH	(80°-90°)	204.5	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°	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7
2.5°	4542.0	4538.1	4542.0	4540.0	4543.9	4543.9	4547.8	4555.6	4555.6	4561.4	4559.4
5°	4497.5	4495.5	4501.2	4507.1	4512.9	4524.6	4536.3	4553.6	4567.3	4576.9	4586.6
7.5°	4410.1	4410.1	4418.0	4431.5	4445.1	4470.2	4497.5	4532.3	4567.3	4596.3	4621.5
10°	4338.5	4342.3	4352.0	4375.3	4398.6	4437.3	4474.2	4524.6	4573.0	4621.5	4660.2
12.5°	4295.9	4301.7	4319.1	4353.9	4392.7	4445.1	4501.2	4565.2	4619.5	4677.7	4716.6
15°	4309.3	4313.2	4338.5	4381.2	4431.5	4497.5	4573.0	4648.5	4712.6	4774.6	4827.0
17.5°	4384.9	4390.7	4419.9	4468.3	4520.7	4598.2	4679.6	4764.9	4844.4	4914.2	4978.1
20°	4520.7	4526.5	4563.3	4615.6	4677.7	4757.2	4838.6	4927.7	5016.9	5090.6	5162.3
22.5°	4712.6	4722.3	4757.2	4809.5	4879.4	4964.7	5061.5	5156.5	5241.8	5309.6	5373.7
25°	4964.7	4986.0	5018.9	5077.0	5150.7	5228.2	5332.9	5429.9	5511.3	5575.2	5621.8
27.5°	5321.3	5350.3	5375.5	5431.8	5503.6	5577.1	5681.9	5767.2	5844.7	5906.7	5941.6
30°	5794.2	5823.4	5848.5	5902.9	5968.8	6038.5	6137.4	6212.9	6261.5	6310.0	6308.0
32.5°	6368.2	6399.2	6408.8	6467.0	6534.8	6610.4	6699.6	6742.3	6781.0	6786.9	6751.9
35°	7009.7	7025.3	7064.0	7141.5	7219.0	7281.1	7366.5	7387.8	7387.8	7358.6	7281.1
37.5°	7713.4	7723.2	7777.4	7864.7	7944.2	8008.1	8066.3	8108.9	8087.6	8025.5	7895.7
40°	8485.0	8502.5	8580.0	8657.5	8746.6	8806.8	8868.8	8876.6	8855.2	8764.1	8587.7
42.5°	9221.6	9237.1	9314.6	9436.9	9553.1	9636.5	9694.7	9706.2	9638.5	9555.0	9336.1
45°	9855.6	9896.3	9997.1	10140.4	10309.2	10427.3	10506.8	10539.9	10479.7	10371.2	10117.3
47.5°	10357.5	10398.3	10541.8	10712.4	10921.8	11113.7	11245.4	11315.2	11299.7	11218.4	10941.1
50°	10725.9	10764.7	10919.7	11129.1	11373.4	11611.9	11836.7	12003.4	12061.6	12024.7	11770.9
52.5°	10768.6	10832.5	11014.7	11295.8	11613.7	11939.5	12259.3	12542.3	12734.3	12763.4	12575.4
55°	10173.5	10237.4	10489.4	10906.2	11379.2	11910.4	12422.1	12899.0	13277.0	13471.0	13372.0
57.5°	8770.0	8884.3	9149.9	9638.5	10334.3	11129.1	11945.3	12792.5	13562.0	14075.7	14174.5
60°	6720.8	6856.7	7124.1	7643.7	8419.0	9367.0	10456.5	11708.8	13067.7	14223.0	14913.2
62.5°	4311.3	4439.2	4720.4	5172.0	5803.9	6831.4	8000.3	9487.2	11313.3	13137.5	14781.4
65°	2215.8	2285.6	2432.9	2706.2	3198.5	3966.2	5015.0	6498.0	8585.8	10836.4	13213.1
67.5°	1403.5	1417.0	1450.0	1488.9	1614.9	1880.4	2368.9	3293.5	5011.1	7358.6	10140.4
70°	1213.5	1213.5	1198.0	1192.2	1207.7	1244.5	1320.1	1535.4	2115.0	3493.2	5848.5
72.5°	1110.8	1099.2	1071.9	1050.7	1046.9	1046.9	1062.3	1095.3	1188.3	1422.8	2289.4
75°	1023.6	990.7	953.8	928.6	918.8	909.2	907.3	913.0	932.4	969.4	1093.3
77.5°	916.9	874.3	831.7	806.4	794.8	781.3	769.6	756.1	746.3	758.0	812.2
80°	789.0	740.6	707.5	692.1	680.5	661.1	635.8	612.6	591.3	587.4	620.3
82.5°	635.8	579.6	581.6	587.4	566.0	539.0	511.8	486.6	449.7	430.4	449.7
85°	513.7	484.6	471.2	507.9	476.9	436.1	393.5	348.9	290.8	244.2	265.5
87.5°	199.7	199.7	298.5	459.5	413.0	337.4	288.9	246.1	153.2	118.2	120.3
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°	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7
2.5°	4557.6	4561.4	4559.4	4557.6	4557.6	4555.6	4557.6	4557.6
5°	4592.3	4602.0	4602.0	4606.0	4606.0	4607.9	4609.8	4607.9
7.5°	4644.7	4662.3	4673.8	4687.4	4689.3	4691.3	4695.1	4691.3
10°	4697.1	4732.0	4757.2	4782.3	4794.1	4797.8	4801.8	4801.8
12.5°	4763.1	4811.4	4856.1	4900.7	4922.0	4933.6	4933.6	4941.3
15°	4871.6	4919.9	4972.4	5032.5	5069.2	5088.7	5094.5	5094.5
17.5°	5024.7	5067.3	5112.0	5170.0	5216.5	5241.8	5247.5	5245.7
20°	5203.1	5243.8	5269.0	5305.7	5346.5	5375.5	5383.4	5383.4
22.5°	5406.5	5429.9	5433.7	5445.3	5478.4	5517.1	5534.5	5538.4
25°	5631.5	5637.3	5621.8	5621.8	5643.2	5680.0	5697.4	5699.2
27.5°	5922.3	5893.2	5854.3	5840.8	5854.3	5897.1	5918.4	5926.1
30°	6284.7	6215.0	6125.8	6077.4	6069.6	6125.8	6164.6	6170.4
32.5°	6699.6	6598.8	6480.6	6381.6	6356.4	6391.4	6438.0	6435.9
35°	7192.0	7071.7	6928.4	6802.3	6744.1	6779.1	6844.9	6852.7
37.5°	7760.0	7603.0	7438.1	7279.2	7188.1	7197.8	7267.6	7290.9
40°	8393.9	8190.3	7982.9	7769.7	7639.7	7614.7	7699.9	7713.4
42.5°	9072.3	8810.7	8549.0	8285.2	8118.6	8079.9	8178.7	8172.9
45°	9795.5	9461.9	9155.7	8865.0	8667.1	8609.0	8690.5	8690.5
47.5°	10572.8	10161.8	9797.4	9467.9	9252.6	9169.3	9246.9	9252.6
50°	11396.6	10960.5	10532.1	10165.7	9907.9	9801.2	9902.0	9917.6
52.5°	12216.7	11792.1	11359.8	10941.1	10629.0	10499.1	10615.5	10665.8
55°	13048.3	12631.5	12218.7	11809.6	11439.3	11286.1	11410.2	11474.2
57.5°	13926.5	13540.7	13147.1	12734.3	12377.6	12139.2	12270.9	12356.2
60°	14955.8	14626.3	14217.2	13761.7	13401.2	13158.8	13234.4	13309.9
62.5°	15770.0	15897.9	15551.0	15023.7	14560.4	14250.3	14323.8	14403.3
65°	15376.5	16688.9	16997.1	16464.0	15822.3	15339.6	15308.6	15349.3
67.5°	12852.5	15401.7	17260.8	17768.7	17231.6	16561.0	16436.8	16497.0
70°	8597.4	11772.7	15052.8	17495.3	18144.8	17885.0	17762.8	17799.6
72.5°	4129.1	6856.7	10212.2	13459.2	15436.6	16343.9	16634.6	16776.0
75°	1510.1	2721.8	4922.0	7416.9	8954.1	10365.4	11286.1	11662.2
77.5°	911.2	1099.2	1572.2	2366.9	2681.0	3000.9	2876.8	2938.8
80°	674.5	761.9	862.6	969.4	1004.1	1004.1	965.4	934.3
82.5°	473.0	529.2	577.7	635.8	651.4	622.3	511.8	407.1
85°	304.3	329.6	350.9	387.7	377.9	360.6	242.4	215.1
87.5°	139.5	159.0	166.7	184.2	176.3	168.6	120.3	100.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)