

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: P190858

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190858  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 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: 62169.8 lumens  
Efficiency: N/A  
Efficacy: 111.4 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 - G4

Input Watts (W): 558  
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

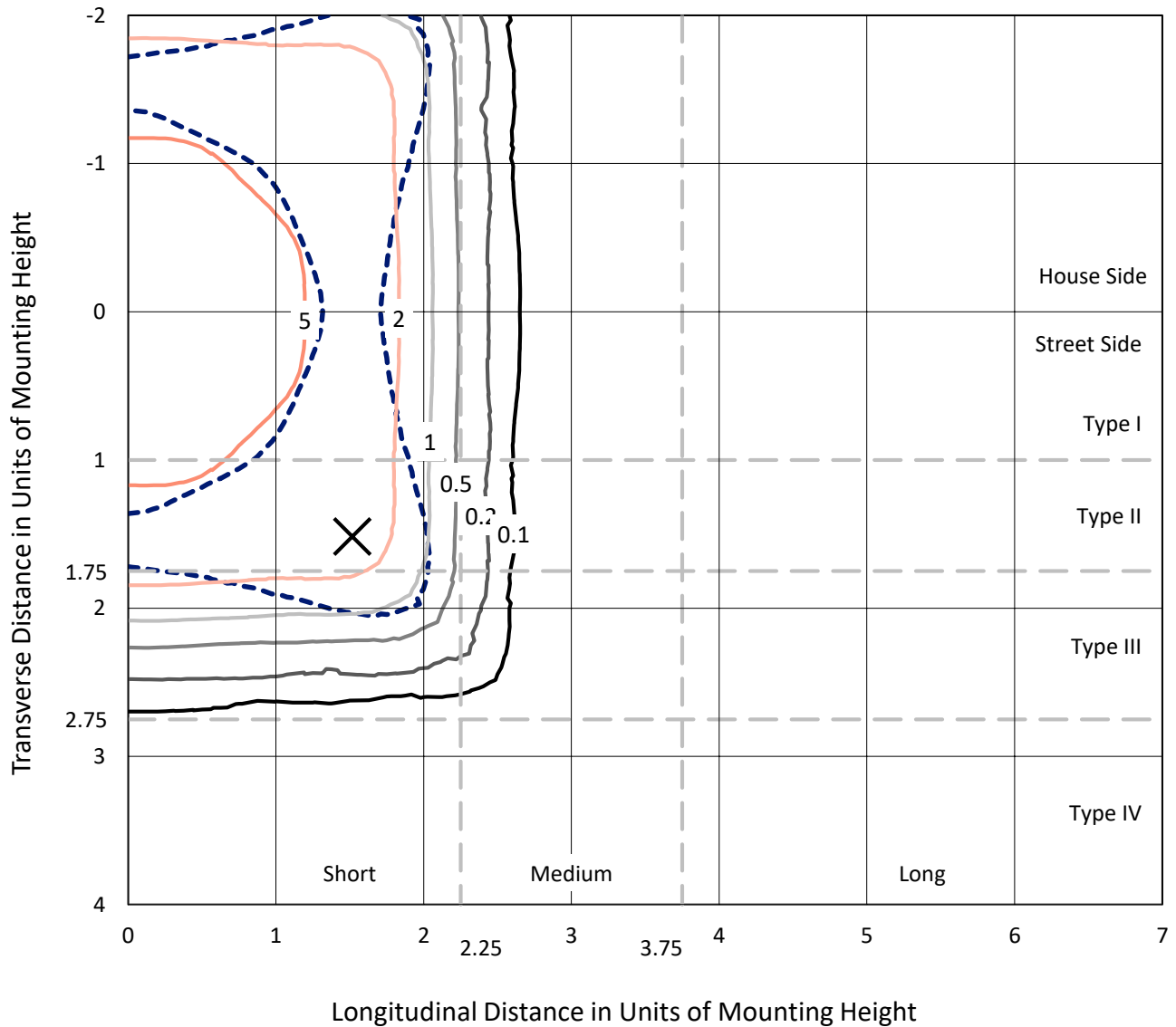


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### Iso-Footcandle Lines of Horizontal Illumination

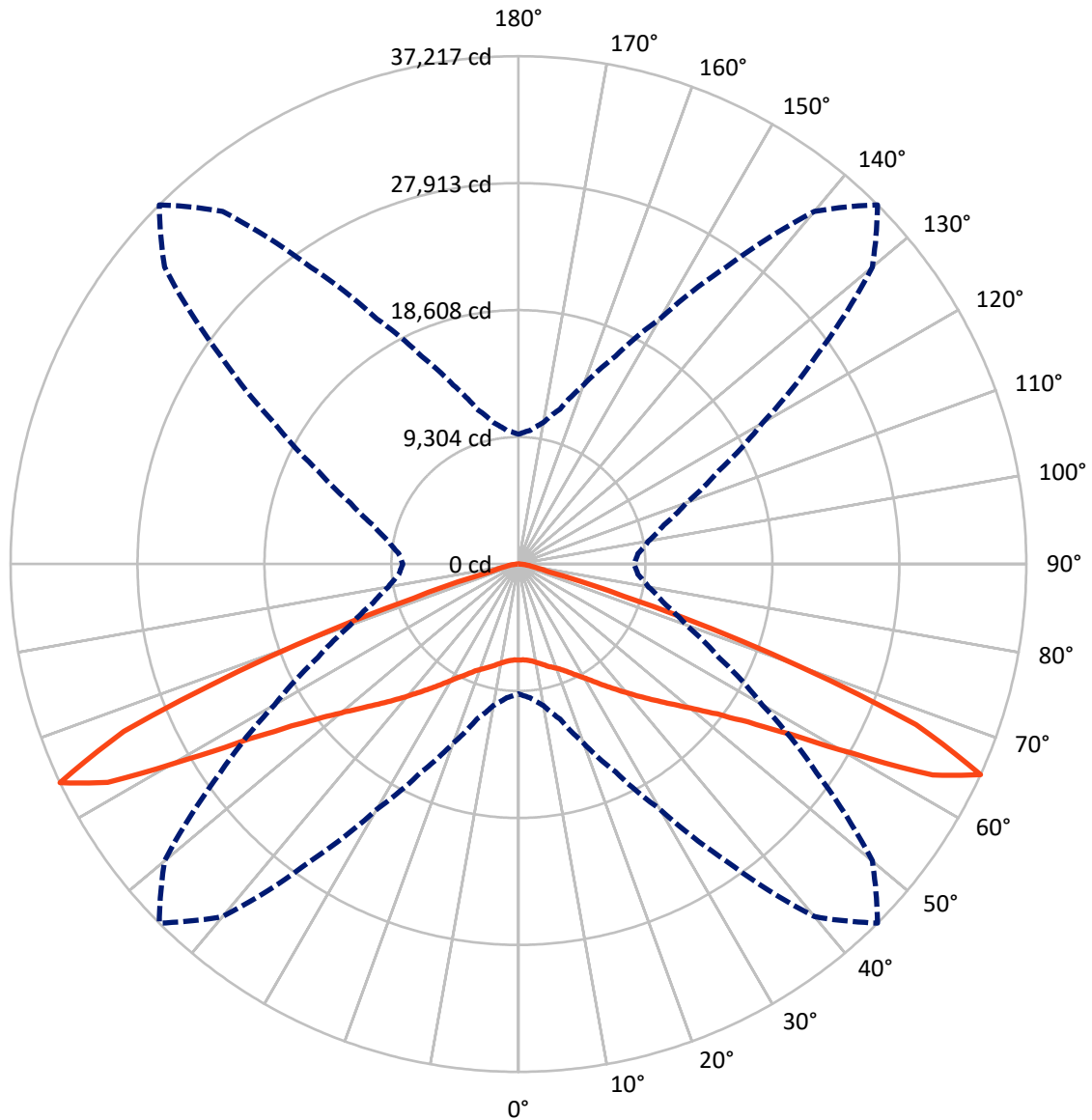
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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
<b>House Side</b>	Lumens	31084.9	0.0	31084.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	31084.9	0.0	31084.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	62169.8	0.0	62169.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	685.6	1.1
10°-20°	2199.0	3.5
20°-30°	4111.7	6.6
30°-40°	6954.0	11.2
40°-50°	11370.5	18.3
50°-60°	18080.9	29.1
60°-70°	16343.9	26.3
70°-80°	2068.4	3.3
80°-90°	355.8	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°	62169.8	100.0
0°-180°	62169.8	100.0

**Coefficient of Utilization**



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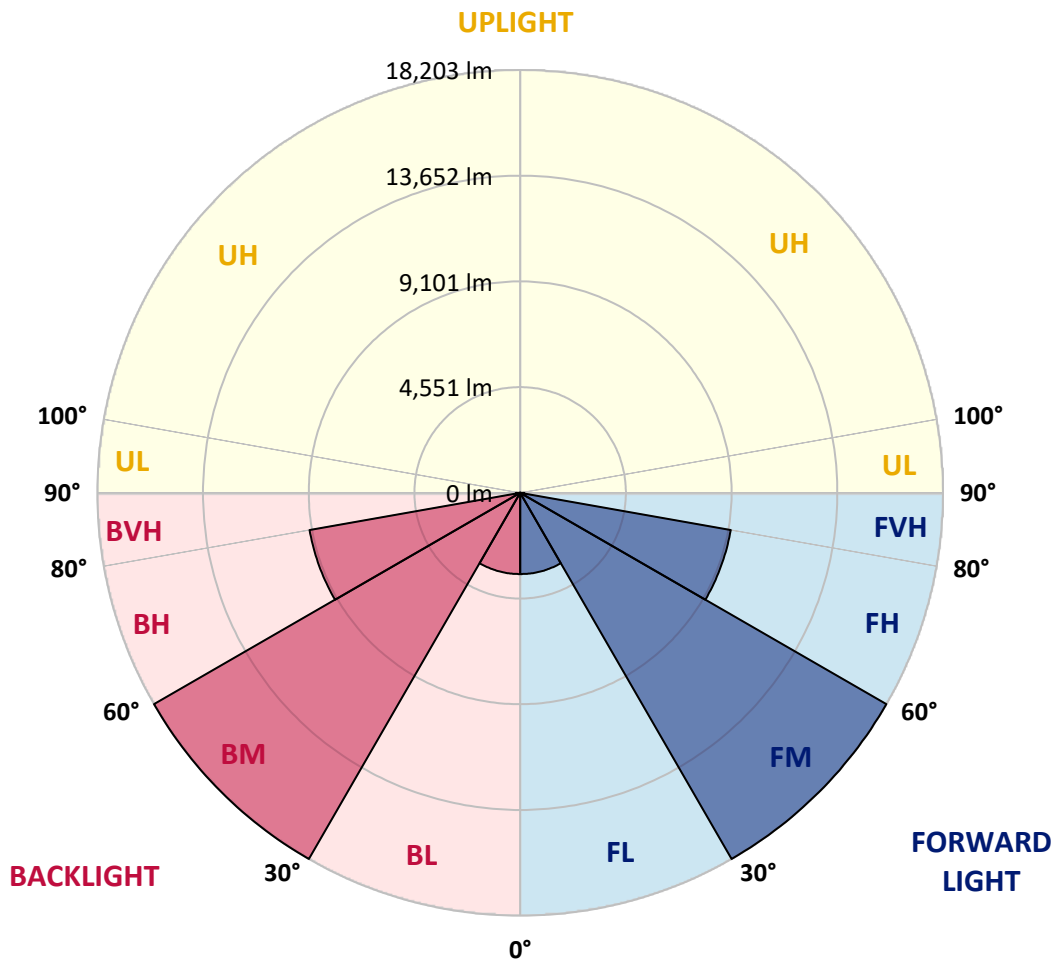
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3498.1	5.6			
FM	(30°-60°)	18202.7	29.3			
FH	(60°-80°)	9206.2	14.8			G4/12000
FVH	(80°-90°)	177.9	0.3			G2/225
BL	(0°-30°)	3498.1	5.6	B4/5000		
BM	(30°-60°)	18202.7	29.3	B5		
BH	(60°-80°)	9206.2	14.8	B5		G4/12000
BVH	(80°-90°)	177.9	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-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7034.5	7034.5	7034.5	7034.5	7034.5	7034.5	7034.5	7034.5	7034.5	7034.5	7034.5
2.5°	7040.4	7046.2	7052.0	7046.2	7052.0	7043.3	7037.5	7046.2	7037.5	7028.7	7034.5
5°	7101.5	7104.4	7104.4	7095.7	7104.4	7098.6	7089.9	7101.5	7092.8	7084.0	7089.9
7.5°	7203.4	7215.1	7206.4	7197.6	7203.4	7197.6	7191.8	7194.7	7191.8	7183.1	7185.9
10°	7340.3	7349.0	7343.2	7340.3	7346.1	7343.2	7337.3	7334.5	7337.3	7328.6	7328.6
12.5°	7506.2	7503.3	7500.4	7503.3	7512.0	7512.0	7509.2	7512.0	7517.9	7520.8	7515.0
15°	7669.3	7675.1	7675.1	7675.1	7692.6	7707.1	7715.9	7721.7	7733.3	7736.3	7724.6
17.5°	7873.1	7873.1	7870.2	7873.1	7890.5	7913.9	7922.7	7934.2	7945.9	7954.7	7940.0
20°	8100.2	8106.1	8106.1	8111.9	8135.1	8161.4	8161.4	8167.1	8161.4	8167.1	8158.4
22.5°	8376.8	8394.3	8394.3	8397.2	8420.5	8452.5	8443.7	8452.5	8438.0	8449.6	8438.0
25°	8737.8	8764.0	8758.2	8758.2	8775.7	8796.1	8799.0	8816.5	8813.5	8828.2	8819.4
27.5°	9145.5	9186.3	9197.9	9195.0	9206.7	9227.0	9232.8	9253.2	9241.5	9253.2	9247.4
30°	9634.7	9652.2	9675.4	9684.2	9698.7	9719.1	9719.1	9722.0	9707.5	9724.9	9733.7
32.5°	10141.3	10173.3	10196.6	10249.0	10275.2	10289.8	10286.9	10292.7	10278.1	10301.4	10318.9
35°	10811.0	10834.3	10872.1	10912.8	10947.8	10944.9	10936.2	10939.0	10939.0	10959.5	10976.9
37.5°	11617.4	11623.3	11672.8	11731.0	11748.5	11731.0	11678.6	11667.0	11640.8	11667.0	11696.1
40°	12470.6	12490.9	12590.0	12627.8	12636.6	12604.5	12528.8	12485.1	12426.9	12458.9	12499.7
42.5°	13364.4	13405.3	13495.5	13562.5	13591.6	13571.2	13466.4	13399.4	13323.7	13341.2	13381.9
45°	14354.5	14404.0	14532.0	14596.1	14651.4	14619.4	14517.5	14415.6	14296.2	14304.9	14369.0
47.5°	15460.9	15510.4	15676.3	15784.0	15813.2	15807.4	15693.8	15554.1	15391.0	15385.2	15440.5
50°	16701.2	16750.7	16957.5	17123.4	17207.9	17199.1	17065.2	16867.2	16669.2	16672.2	16742.0
52.5°	17912.5	17973.7	18189.1	18474.4	18640.4	18759.8	18678.3	18491.9	18250.3	18256.1	18320.1
55°	19048.1	19149.9	19397.4	19784.7	20093.3	20428.1	20524.3	20518.4	20372.8	20413.6	20477.6
57.5°	19598.3	19749.7	20131.2	20742.6	21371.5	22052.9	22629.3	23060.3	23243.7	23520.3	23456.3
60°	18555.9	18797.6	19359.5	20259.2	21502.5	22923.4	24446.3	25934.1	27203.5	28161.5	27611.2
62.5°	15193.0	15507.4	16188.8	17341.8	19222.7	21496.7	24411.3	27928.6	31760.3	34072.1	32421.2
65°	9506.6	9832.6	10525.7	11760.1	13961.3	16788.6	20742.6	26571.8	33731.5	37216.7	33856.7
67.5°	3706.6	3884.1	4259.8	5048.8	6702.6	9218.3	13186.9	19802.2	28365.3	31419.6	27838.3
70°	1857.7	1875.1	1944.9	2090.6	2445.8	3176.6	4833.3	9180.5	16267.4	19647.8	15682.1
72.5°	1342.3	1345.2	1380.2	1444.2	1557.7	1720.8	2035.3	2809.7	5290.5	8085.6	4958.5
75°	1027.9	1039.4	1059.9	1094.8	1155.9	1237.5	1351.0	1618.9	2006.1	2326.4	1956.6
77.5°	792.0	815.3	829.8	861.8	899.7	955.0	987.0	1088.9	1266.6	1333.5	1313.2
80°	602.7	623.1	655.1	681.3	707.6	733.8	722.1	768.6	861.8	917.2	888.0
82.5°	384.3	407.6	500.8	524.1	535.7	553.2	532.9	535.7	576.5	611.4	576.5
85°	247.5	262.1	317.3	346.5	349.4	361.0	352.3	331.9	331.9	302.8	340.6
87.5°	113.5	116.5	142.7	168.9	174.7	157.2	154.4	148.5	119.4	113.5	122.2
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°	7034.5	7034.5	7034.5	7034.5	7034.5	7034.5	7034.5	7034.5
2.5°	7031.7	7037.5	7040.4	7049.2	7052.0	7052.0	7054.9	7060.7
5°	7087.0	7095.7	7098.6	7110.2	7113.2	7110.2	7116.1	7119.0
7.5°	7185.9	7200.6	7206.4	7217.9	7209.2	7220.9	7223.8	7223.8
10°	7331.5	7346.1	7349.0	7360.6	7354.8	7360.6	7360.6	7354.8
12.5°	7523.7	7526.7	7517.9	7526.7	7515.0	7520.8	7512.0	7506.2
15°	7736.3	7727.5	7707.1	7707.1	7689.6	7692.6	7689.6	7686.8
17.5°	7943.0	7925.5	7911.0	7905.2	7890.5	7887.7	7879.0	7879.0
20°	8170.1	8161.4	8152.6	8140.9	8126.4	8111.9	8108.9	8114.8
22.5°	8443.7	8440.9	8440.9	8435.0	8414.7	8400.2	8391.4	8391.4
25°	8810.7	8784.5	8784.5	8781.5	8772.8	8764.0	8746.6	8755.3
27.5°	9224.2	9209.5	9221.2	9218.3	9209.5	9209.5	9197.9	9197.9
30°	9733.7	9727.9	9745.3	9730.7	9701.7	9698.7	9687.0	9672.5
32.5°	10321.8	10315.9	10342.2	10324.7	10278.1	10251.9	10228.6	10217.0
35°	10976.9	10979.8	11011.9	11000.2	10947.8	10930.3	10889.6	10883.8
37.5°	11693.1	11739.8	11795.1	11806.8	11763.1	11751.5	11707.8	11684.5
40°	12534.6	12595.8	12680.3	12700.7	12654.0	12645.3	12584.1	12552.1
42.5°	13431.4	13536.3	13641.0	13658.5	13612.0	13565.4	13507.1	13483.8
45°	14433.0	14558.2	14695.1	14730.1	14660.2	14604.9	14529.2	14529.2
47.5°	15556.9	15714.2	15868.5	15964.6	15900.5	15842.3	15752.0	15693.8
50°	16884.6	17100.2	17301.1	17400.0	17298.1	17187.5	17030.3	16977.8
52.5°	18550.1	18783.0	18957.7	18905.4	18748.1	18593.8	18422.0	18352.1
55°	20675.7	20754.2	20754.2	20556.3	20241.8	19982.6	19711.9	19621.6
57.5°	23334.0	23031.1	22565.3	21974.2	21231.8	20585.4	20148.7	19941.9
60°	26458.2	25002.4	23357.2	21741.3	20413.6	19318.8	18669.5	18372.5
62.5°	28540.0	24731.6	21435.6	18841.3	16931.3	15612.3	14715.5	14366.1
65°	26673.6	20626.2	16212.0	13108.3	11026.4	9684.2	8796.1	8470.0
67.5°	19537.1	12924.8	8633.1	6187.2	4533.4	3616.2	3252.3	3100.9
70°	8769.9	4550.9	2789.4	2178.0	1878.0	1723.7	1656.8	1633.4
72.5°	2643.8	1912.9	1613.1	1455.9	1336.5	1260.8	1205.4	1199.6
75°	1595.6	1327.7	1179.3	1086.1	1010.4	949.2	920.0	911.3
77.5°	1115.1	975.4	905.5	838.5	780.3	733.8	707.6	687.1
80°	783.3	716.3	684.3	646.4	608.6	564.9	527.0	509.5
82.5°	524.1	509.5	509.5	486.2	454.2	413.5	337.8	320.3
85°	337.8	334.8	340.6	331.9	308.6	264.9	218.4	206.7
87.5°	157.2	160.1	177.6	174.7	168.9	139.7	110.7	104.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)