

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: P190868

Luminaire Tested: **GLEON-AF-10-LED-E1-5NQ-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190868  
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-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 68199.1 lumens  
Efficiency: N/A  
Efficacy: 106.6 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

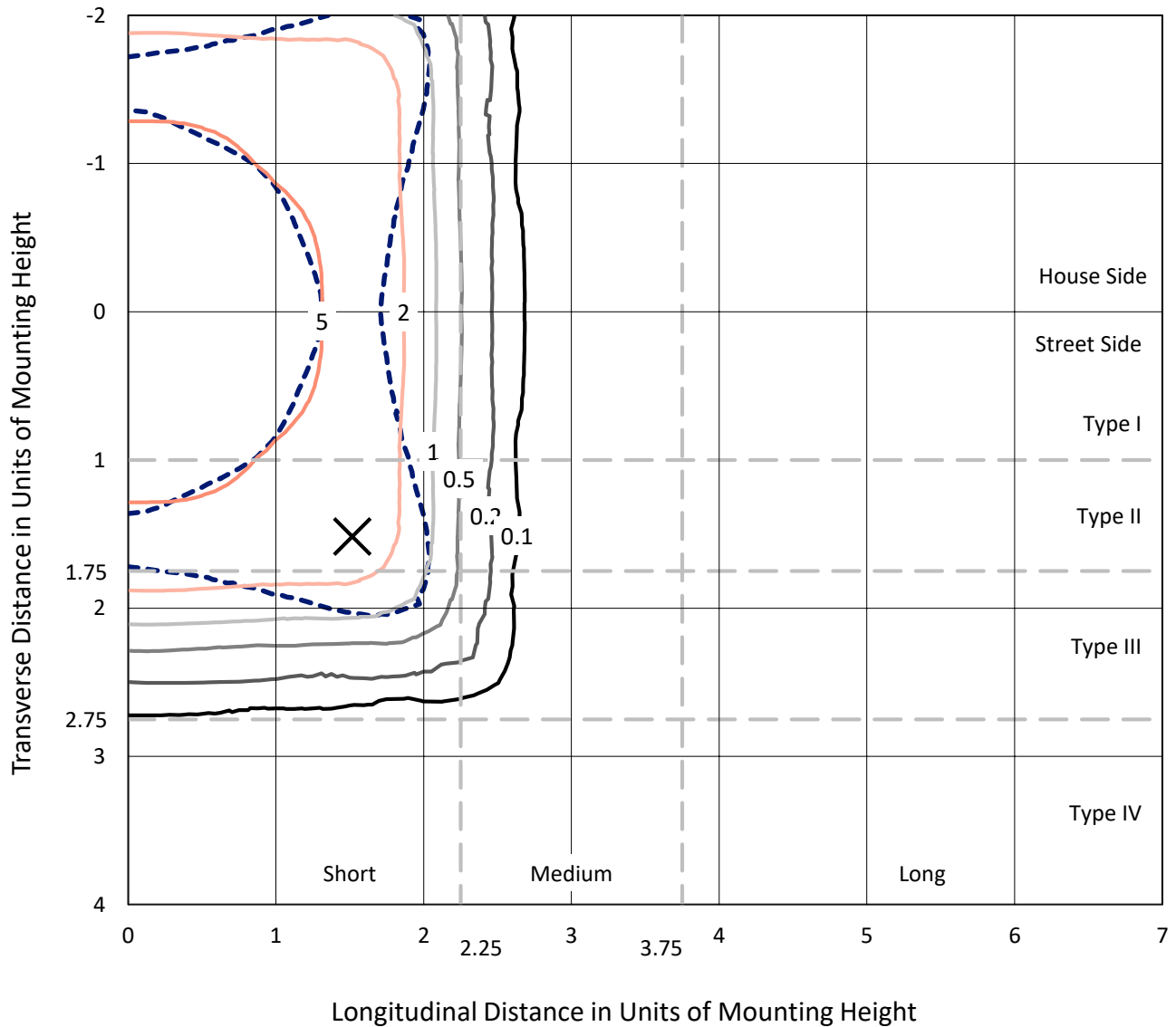
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P190868  
 CATALOG NUMBER: GLEON-AF-10-LED-E1-5NQ-1200

### Iso-Footcandle Lines of Horizontal Illumination

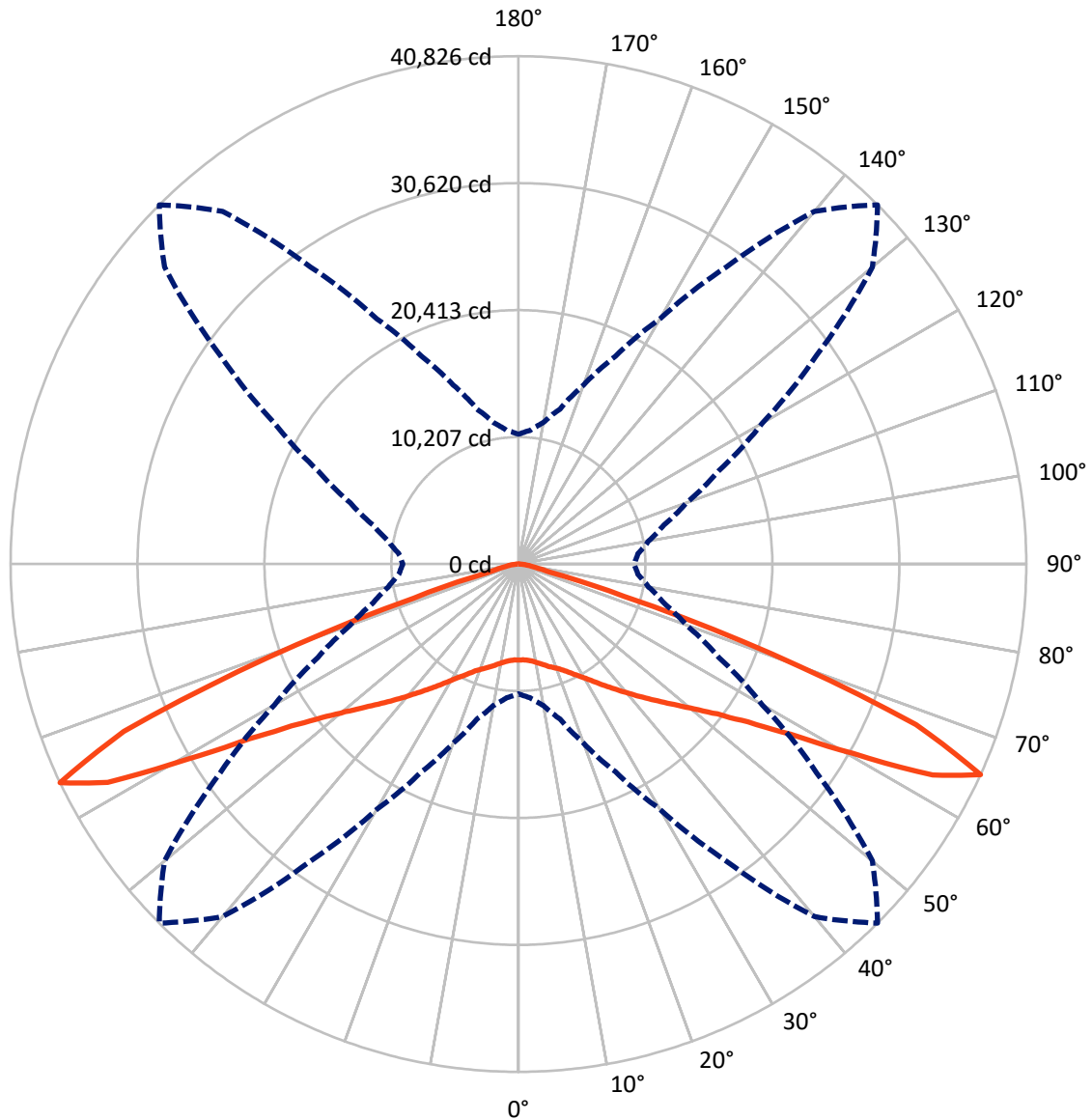
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P190868  
CATALOG NUMBER: GLEON-AF-10-LED-E1-5NQ-1200

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P190868

CATALOG NUMBER: GLEON-AF-10-LED-E1-5NQ-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	34099.6	0.0	34099.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	34099.6	0.0	34099.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	68199.1	0.0	68199.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	752.1	1.1
10°-20°	2412.2	3.5
20°-30°	4510.4	6.6
30°-40°	7628.4	11.2
40°-50°	12473.2	18.3
50°-60°	19834.4	29.1
60°-70°	17929.0	26.3
70°-80°	2269.0	3.3
80°-90°	390.3	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°	68199.1	100.0
0°-180°	68199.1	100.0



REPORT NUMBER: P190868

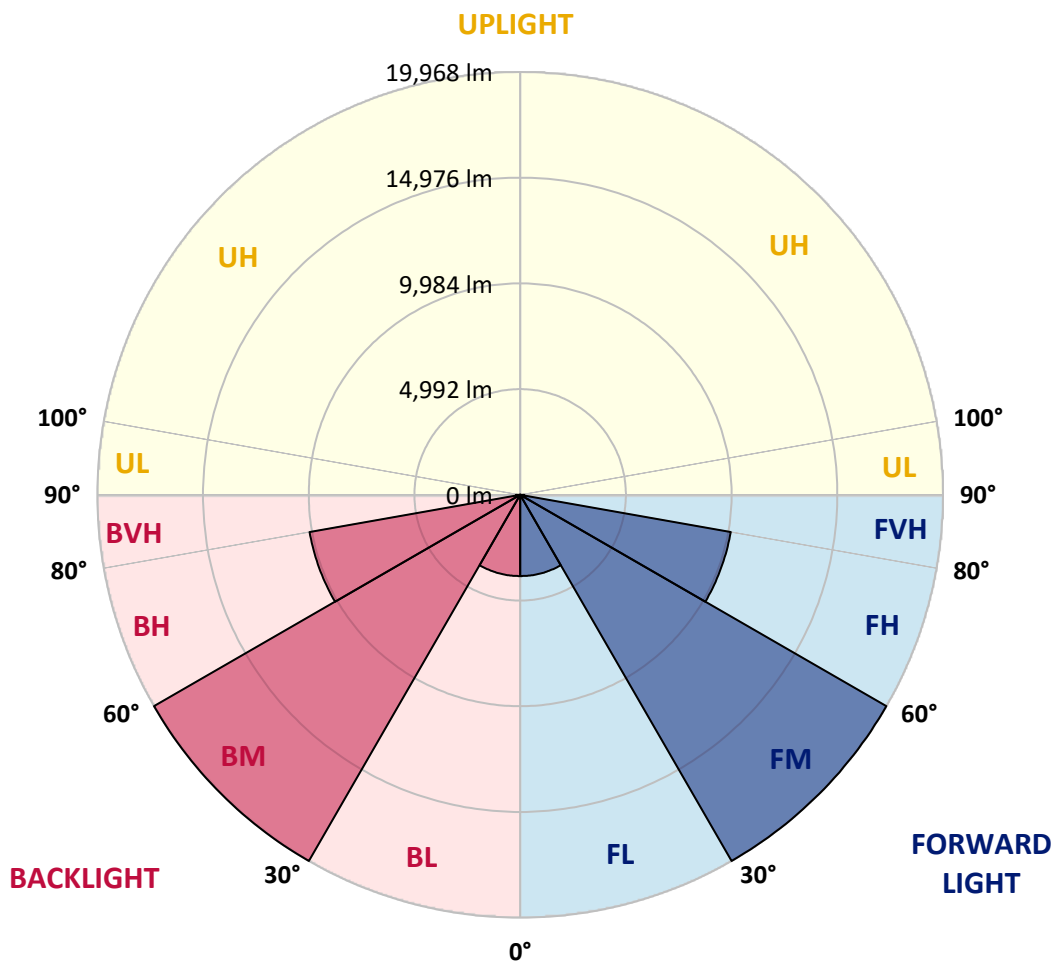
CATALOG NUMBER: GLEON-AF-10-LED-E1-5NQ-1200

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3837.4	5.6			
FM	(30°-60°)	19968.0	29.3			
FH	(60°-80°)	10099.0	14.8			G4/12000
FVH	(80°-90°)	195.2	0.3			G2/225
BL	(0°-30°)	3837.4	5.6	B4/5000		
BM	(30°-60°)	19968.0	29.3	B5		
BH	(60°-80°)	10099.0	14.8	B5		G4/12000
BVH	(80°-90°)	195.2	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





REPORT NUMBER: P190868  
 CATALOG NUMBER: GLEON-AF-10-LED-E1-5NQ-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7716.7	7716.7	7716.7	7716.7	7716.7	7716.7	7716.7	7716.7	7716.7	7716.7	7716.7
2.5°	7723.2	7729.5	7736.0	7729.5	7736.0	7726.3	7720.0	7729.5	7720.0	7710.4	7716.7
5°	7790.2	7793.5	7793.5	7783.8	7793.5	7787.0	7777.5	7790.2	7780.7	7771.1	7777.5
7.5°	7902.0	7914.8	7905.3	7895.6	7902.0	7895.6	7889.2	7892.5	7889.2	7879.7	7882.9
10°	8052.2	8061.7	8055.3	8052.2	8058.5	8055.3	8049.0	8045.7	8049.0	8039.4	8039.4
12.5°	8234.2	8231.0	8227.8	8231.0	8240.6	8240.6	8237.4	8240.6	8246.9	8250.2	8243.8
15°	8413.1	8419.5	8419.5	8419.5	8438.6	8454.6	8464.2	8470.5	8483.3	8486.5	8473.7
17.5°	8636.7	8636.7	8633.5	8636.7	8655.8	8681.4	8691.0	8703.7	8716.5	8726.1	8710.1
20°	8885.8	8892.2	8892.2	8898.5	8924.1	8952.9	8952.9	8959.2	8952.9	8959.2	8949.7
22.5°	9189.2	9208.4	9208.4	9211.6	9237.1	9272.2	9262.7	9272.2	9256.3	9269.1	9256.3
25°	9585.3	9614.0	9607.7	9607.7	9626.8	9649.2	9652.4	9671.5	9668.3	9684.3	9674.7
27.5°	10032.4	10077.2	10090.0	10086.7	10099.5	10121.9	10128.2	10150.6	10137.9	10150.6	10144.2
30°	10569.0	10588.2	10613.7	10623.3	10639.3	10661.7	10661.7	10664.9	10648.9	10668.0	10677.7
32.5°	11124.8	11159.9	11185.5	11242.9	11271.7	11287.6	11284.5	11290.9	11274.9	11300.4	11319.7
35°	11859.4	11884.9	11926.5	11971.2	12009.5	12006.4	11996.8	11999.9	11999.9	12022.3	12041.5
37.5°	12744.1	12750.6	12804.9	12868.7	12887.9	12868.7	12811.2	12798.4	12769.7	12798.4	12830.4
40°	13680.0	13702.3	13811.0	13852.5	13862.1	13826.9	13743.9	13696.0	13632.1	13667.2	13711.9
42.5°	14660.6	14705.3	14804.3	14877.8	14909.7	14887.3	14772.3	14698.9	14615.8	14635.1	14679.8
45°	15746.6	15800.8	15941.4	16011.6	16072.3	16037.2	15925.4	15813.6	15682.7	15692.3	15762.5
47.5°	16960.3	17014.5	17196.6	17314.8	17346.8	17340.3	17215.8	17062.5	16883.6	16877.3	16937.9
50°	18320.9	18375.3	18602.1	18784.0	18876.7	18867.1	18720.2	18503.0	18285.8	18289.0	18365.6
52.5°	19649.7	19716.8	19953.1	20266.1	20448.2	20579.1	20489.7	20285.2	20020.2	20026.5	20096.8
55°	20895.3	21007.1	21278.6	21703.4	22041.9	22409.3	22514.6	22508.3	22348.6	22393.3	22463.6
57.5°	21498.9	21665.1	22083.5	22754.2	23444.2	24191.6	24823.9	25296.7	25497.9	25801.4	25731.1
60°	20355.5	20620.6	21237.1	22224.0	23587.9	25146.6	26817.1	28449.2	29841.8	30892.6	30289.0
62.5°	16666.4	17011.4	17758.7	19023.6	21087.0	23581.5	26778.7	30637.1	34840.5	37376.5	35565.4
65°	10428.5	10786.2	11546.4	12900.6	15315.3	18416.8	22754.2	29148.7	37002.8	40826.1	37140.2
67.5°	4066.0	4260.8	4672.8	5538.5	7352.7	10112.3	14465.8	21722.6	31116.2	34466.7	30538.0
70°	2037.8	2056.9	2133.6	2293.4	2683.0	3484.7	5302.1	10070.7	17845.1	21553.3	17203.1
72.5°	1472.4	1475.6	1514.0	1584.2	1708.8	1887.7	2232.6	3082.3	5803.5	8869.8	5439.4
75°	1127.5	1140.3	1162.6	1200.9	1268.0	1357.5	1482.1	1775.8	2200.7	2552.1	2146.4
77.5°	868.8	894.4	910.3	945.4	986.9	1047.6	1082.8	1194.6	1389.4	1462.8	1440.5
80°	661.1	683.5	718.6	747.4	776.1	804.9	792.1	843.2	945.4	1006.1	974.2
82.5°	421.7	447.1	549.3	574.9	587.7	606.8	584.5	587.7	632.4	670.7	632.4
85°	271.5	287.4	348.1	380.1	383.3	396.1	386.5	364.1	364.1	332.2	373.7
87.5°	124.6	127.8	156.5	185.3	191.6	172.5	169.3	162.9	130.9	124.6	134.1
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: P190868  
 CATALOG NUMBER: GLEON-AF-10-LED-E1-5NQ-1200

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	7716.7	7716.7	7716.7	7716.7	7716.7	7716.7	7716.7	7716.7
2.5°	7713.6	7720.0	7723.2	7732.7	7736.0	7736.0	7739.1	7745.5
5°	7774.2	7783.8	7787.0	7799.8	7803.0	7799.8	7806.2	7809.4
7.5°	7882.9	7898.8	7905.3	7917.9	7908.4	7921.2	7924.4	7924.4
10°	8042.5	8058.5	8061.7	8074.5	8068.1	8074.5	8074.5	8068.1
12.5°	8253.4	8256.5	8246.9	8256.5	8243.8	8250.2	8240.6	8234.2
15°	8486.5	8477.0	8454.6	8454.6	8435.5	8438.6	8435.5	8432.2
17.5°	8713.3	8694.2	8678.2	8671.8	8655.8	8652.6	8643.0	8643.0
20°	8962.5	8952.9	8943.2	8930.5	8914.5	8898.5	8895.4	8901.7
22.5°	9262.7	9259.4	9259.4	9253.1	9230.7	9214.7	9205.2	9205.2
25°	9665.1	9636.4	9636.4	9633.2	9623.6	9614.0	9594.9	9604.5
27.5°	10118.7	10102.7	10115.4	10112.3	10102.7	10102.7	10090.0	10090.0
30°	10677.7	10671.2	10690.4	10674.4	10642.5	10639.3	10626.5	10610.6
32.5°	11322.8	11316.4	11345.1	11326.0	11274.9	11246.1	11220.6	11207.9
35°	12041.5	12044.6	12079.8	12067.0	12009.5	11990.4	11945.6	11939.3
37.5°	12827.2	12878.3	12939.0	12951.8	12903.9	12891.1	12843.1	12817.6
40°	13750.3	13817.3	13910.0	13932.4	13881.2	13871.6	13804.6	13769.4
42.5°	14734.1	14849.1	14964.0	14983.2	14932.1	14881.0	14817.0	14791.6
45°	15832.8	15970.1	16120.3	16158.5	16081.9	16021.3	15938.2	15938.2
47.5°	17065.7	17238.2	17407.5	17512.8	17442.5	17378.7	17279.7	17215.8
50°	18522.2	18758.5	18978.9	19087.5	18975.7	18854.3	18681.8	18624.4
52.5°	20349.2	20604.7	20796.3	20738.8	20566.3	20397.0	20208.6	20132.0
55°	22680.8	22767.0	22767.0	22549.8	22204.9	21920.6	21623.5	21524.5
57.5°	25596.9	25264.7	24753.7	24105.3	23290.9	22581.7	22102.7	21875.9
60°	29024.1	27427.1	25622.5	23849.8	22393.3	21192.4	20480.1	20154.3
62.5°	31307.8	27130.1	23514.4	20668.5	18573.3	17126.3	16142.6	15759.3
65°	29260.5	22626.4	17784.3	14379.5	12095.8	10623.3	9649.2	9291.5
67.5°	21431.9	14178.3	9470.3	6787.3	4973.1	3967.0	3567.7	3401.6
70°	9620.4	4992.3	3059.9	2389.1	2060.1	1890.8	1817.4	1791.8
72.5°	2900.2	2098.5	1769.5	1597.0	1466.1	1383.0	1322.4	1315.9
75°	1750.4	1456.5	1293.6	1191.3	1108.4	1041.3	1009.3	999.7
77.5°	1223.3	1070.0	993.4	919.8	856.0	804.9	776.1	753.8
80°	859.2	785.7	750.6	709.1	667.6	619.6	578.1	558.9
82.5°	574.9	558.9	558.9	533.4	498.3	453.6	370.5	351.4
85°	370.5	367.3	373.7	364.1	338.6	290.6	239.6	226.8
87.5°	172.5	175.6	194.9	191.6	185.3	153.3	121.3	115.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)