

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: P382717

Luminaire Tested: **GLEON-SA1A-735-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1A-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4451.9 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

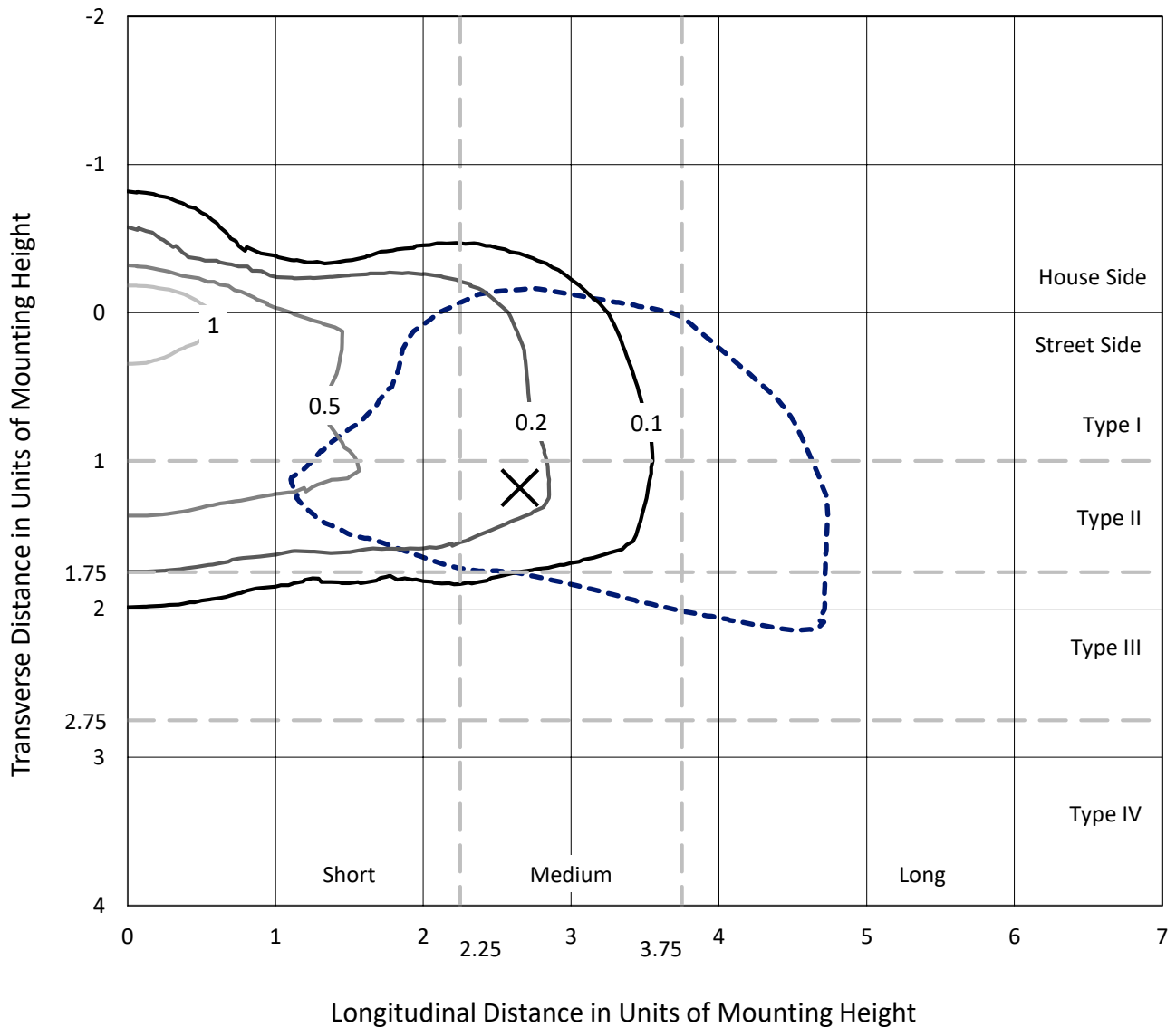
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

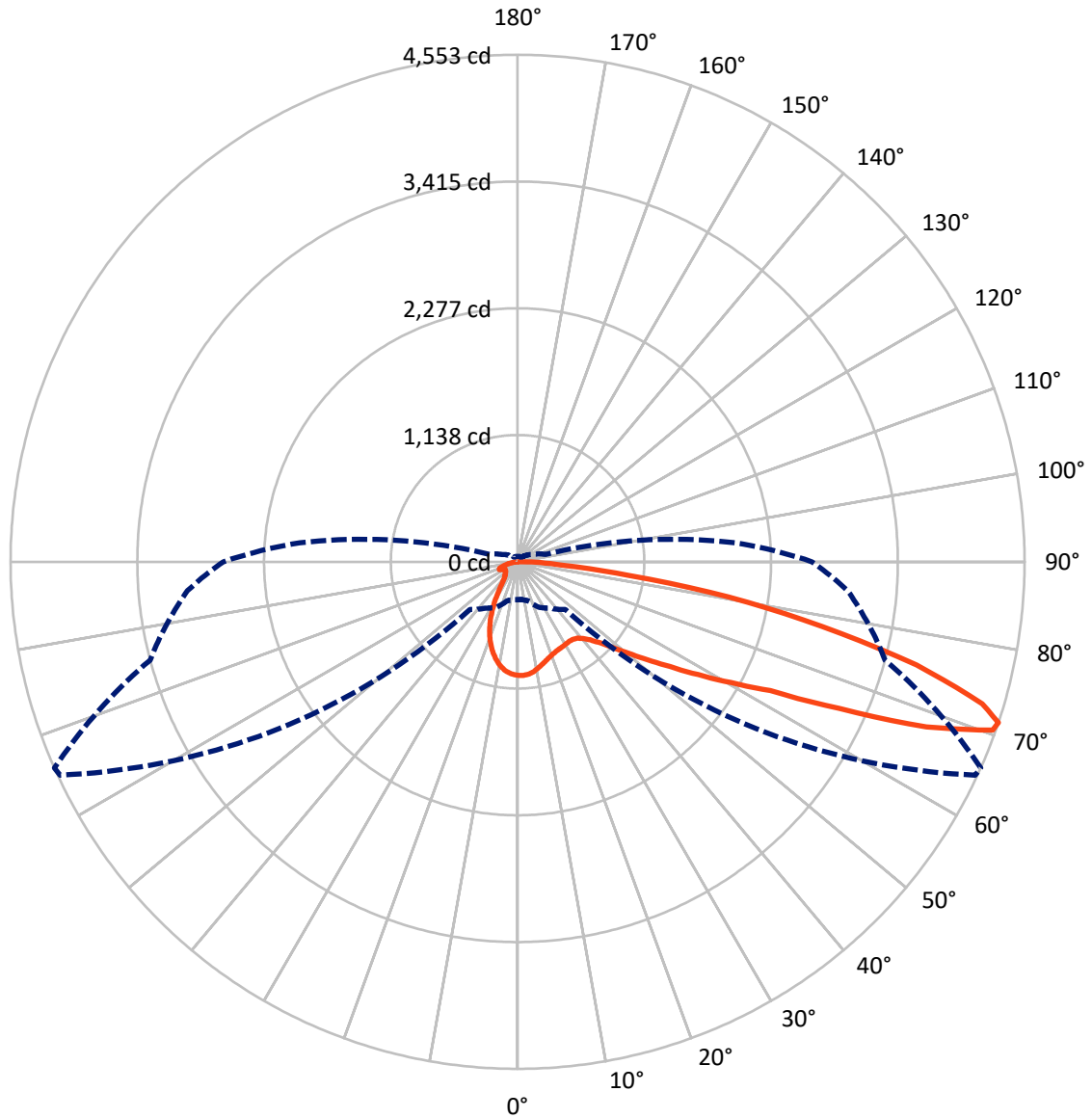
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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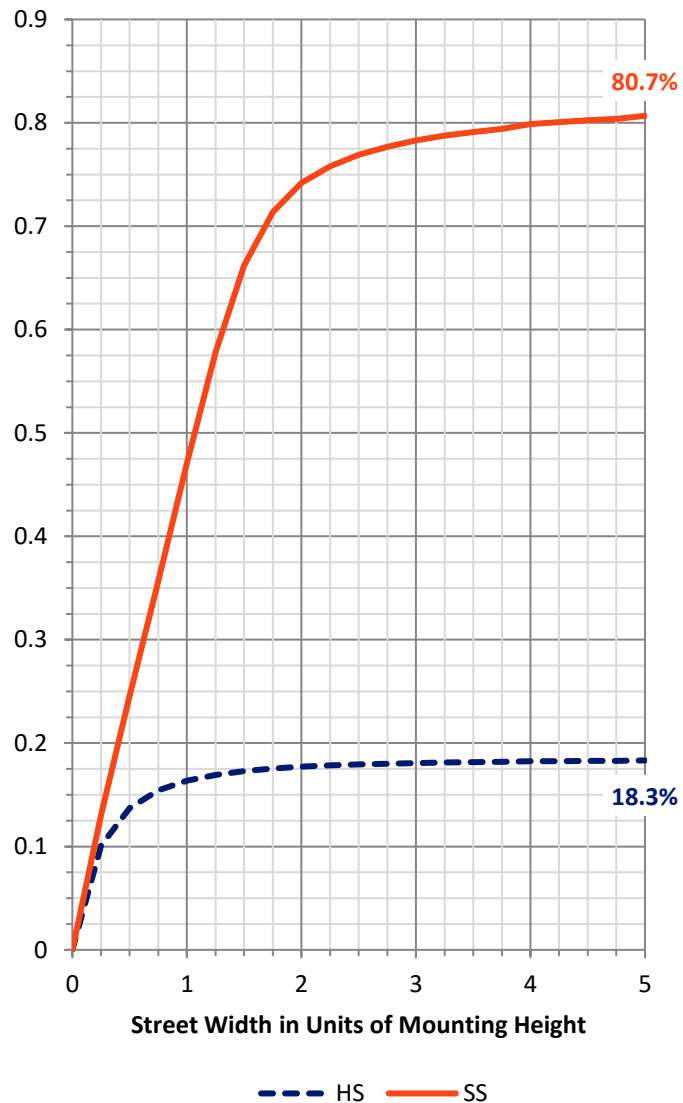
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	825.1	0.0	825.1
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	3626.8	0.0	3626.8
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	4451.9	0.0	4451.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.8	2.0
10°-20°	215.3	4.8
20°-30°	289.2	6.5
30°-40°	380.5	8.5
40°-50°	553.5	12.4
50°-60°	864.6	19.4
60°-70°	1083.0	24.3
70°-80°	826.1	18.6
80°-90°	150.0	3.4
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°	4451.9	100.0
0°-180°	4451.9	100.0

**Coefficient of Utilization**

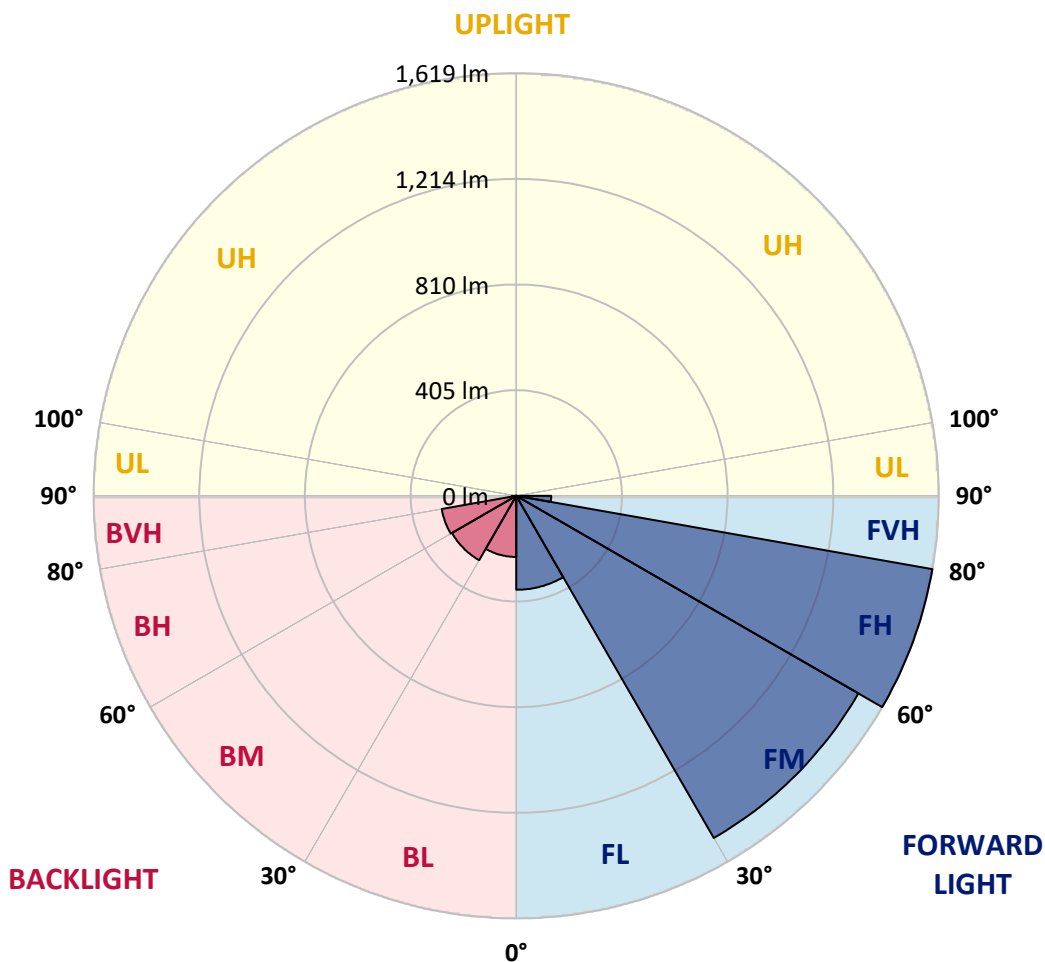


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.0	8.1			
FM (30°-60°)	1513.9	34.0			
FH (60°-80°)	1619.2	36.4			G1/1800
FVH (80°-90°)	133.8	3.0			G2/225
BL (0°-30°)	234.3	5.3	B1/500		
BM (30°-60°)	284.6	6.4	B1/1000		
BH (60°-80°)	289.9	6.5	B1/500		G1/500
BVH (80°-90°)	16.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9
2.5°	1000.9	999.4	1004.0	1008.8	1010.6	1013.7	1018.3	1020.9	1020.8	1021.3	1019.7
5°	934.5	932.6	941.8	949.2	963.8	980.0	999.8	1014.0	1014.3	1022.3	1024.4
7.5°	871.6	870.3	880.9	893.1	909.7	934.7	966.9	997.2	999.1	1020.8	1028.3
10°	821.3	821.0	831.2	844.4	864.0	891.8	928.7	973.3	976.1	1013.3	1028.9
12.5°	781.9	782.5	791.4	806.5	827.1	856.2	896.1	946.4	950.8	1001.7	1025.4
15°	752.9	755.3	762.6	777.7	798.1	827.6	868.6	921.5	928.2	988.7	1023.4
17.5°	736.3	739.0	744.1	756.7	775.8	804.2	843.1	901.0	907.1	978.7	1023.5
20°	731.4	733.6	736.6	744.2	760.4	786.2	822.9	882.5	889.2	970.7	1025.1
22.5°	741.0	742.7	743.0	742.4	752.2	773.3	808.3	869.0	876.1	965.5	1026.1
25°	761.7	764.1	762.4	756.7	753.4	766.4	800.9	860.1	867.2	961.5	1024.0
27.5°	792.9	793.3	791.9	784.5	769.3	767.1	798.5	854.9	861.7	957.2	1019.5
30°	835.4	837.4	834.9	825.0	800.0	779.4	801.2	849.9	856.0	951.5	1012.3
32.5°	885.1	890.0	889.8	879.4	843.7	807.0	812.7	846.8	851.5	945.4	1003.6
35°	936.5	943.3	955.9	951.5	907.3	850.4	834.5	851.7	854.9	944.7	997.4
37.5°	990.0	996.8	1022.7	1034.8	983.1	912.7	868.9	869.0	870.6	954.1	996.9
40°	1045.9	1053.2	1092.2	1123.4	1081.3	991.5	924.4	905.4	903.6	977.1	1006.0
42.5°	1124.4	1130.8	1177.7	1217.5	1190.3	1092.5	1001.0	961.3	957.7	1022.3	1035.0
45°	1223.5	1229.0	1278.8	1321.4	1307.4	1207.8	1097.5	1038.3	1037.7	1097.6	1093.9
47.5°	1341.4	1345.7	1390.4	1431.6	1436.7	1340.5	1218.6	1157.1	1147.1	1200.9	1185.1
50°	1464.2	1469.0	1499.4	1543.7	1581.3	1518.0	1374.4	1302.7	1289.3	1337.2	1314.2
52.5°	1545.5	1551.8	1578.2	1634.3	1744.0	1712.6	1558.8	1479.1	1458.8	1502.5	1484.8
55°	1509.2	1523.4	1563.8	1653.7	1874.0	2009.8	1786.1	1684.9	1662.0	1698.3	1687.9
57.5°	1344.3	1363.7	1418.8	1557.6	1892.3	2271.8	2129.7	1927.3	1911.2	1900.7	1905.5
60°	1042.9	1061.5	1129.9	1310.8	1764.8	2463.0	2647.0	2226.1	2202.7	2103.9	2108.2
62.5°	738.1	728.7	775.6	908.0	1434.1	2485.5	3235.5	2625.8	2548.9	2318.5	2299.6
65°	562.8	560.7	581.8	623.9	868.6	2216.9	3586.1	3297.4	3177.4	2570.9	2526.3
67.5°	462.5	458.7	479.4	540.8	559.3	1430.2	3593.8	4076.7	3958.8	2885.1	2788.5
70°	380.3	376.0	395.3	474.5	516.9	725.3	3024.6	4533.1	4526.8	3282.9	2986.5
71°	340.9	337.9	361.1	449.0	507.9	604.5	2611.5	4534.3	4553.2	3417.5	2974.8
72.5°	277.6	278.6	303.2	399.6	501.1	533.8	1919.4	4322.9	4362.9	3545.8	2868.6
75°	184.4	185.4	217.6	307.4	485.9	522.3	1054.9	3627.4	3700.9	3469.0	2617.6
77.5°	123.9	123.6	145.6	210.9	423.3	522.3	618.5	2713.0	2793.7	2760.3	2018.0
80°	85.3	84.7	100.2	145.6	320.5	528.6	478.2	1901.4	1925.8	1490.7	820.1
82.5°	52.3	52.7	65.5	102.8	218.1	475.7	451.4	1036.7	1010.2	418.1	204.8
85°	30.0	29.8	41.8	69.6	140.0	401.5	440.2	446.2	409.3	125.9	74.1
87.5°	10.8	11.6	22.5	38.6	80.2	279.6	373.6	232.1	209.2	56.9	33.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9
2.5°	1018.6	1019.5	1018.5	1012.3	1007.1	998.6	993.9	987.3	985.3	984.4	986.8
5°	1022.5	1022.7	1013.7	997.6	979.4	958.0	942.6	923.8	914.9	911.1	913.5
7.5°	1026.0	1024.6	1004.8	973.8	940.4	903.1	870.2	839.9	822.2	814.9	815.6
10°	1026.5	1020.6	988.7	941.0	889.1	834.5	783.7	737.0	707.5	688.3	694.1
12.5°	1021.7	1011.8	965.3	898.4	826.3	751.9	683.4	613.3	571.1	551.7	552.2
15°	1018.0	1000.2	936.4	848.3	751.5	652.9	559.3	477.0	432.1	412.1	402.7
17.5°	1014.9	987.5	902.9	791.9	663.1	538.2	425.6	352.1	327.5	321.7	319.2
20°	1010.6	974.2	865.5	726.6	562.4	409.6	310.8	274.5	274.7	281.4	282.4
22.5°	1004.6	958.9	825.7	653.3	454.3	298.4	243.6	233.2	243.8	256.7	259.0
25°	995.7	941.0	781.5	572.2	346.4	229.3	208.1	207.6	220.6	234.1	236.1
27.5°	983.1	917.5	732.3	485.2	255.3	194.9	186.4	189.7	199.2	209.0	209.8
30°	966.2	890.1	678.0	393.5	200.1	173.5	172.6	175.5	181.4	188.3	188.9
32.5°	947.6	862.3	620.0	304.6	171.4	162.0	162.9	164.3	167.1	169.8	170.5
35°	930.7	833.8	560.7	231.5	157.7	154.5	153.9	153.5	153.9	153.0	153.1
37.5°	919.8	810.4	498.9	184.3	149.9	147.8	146.1	143.7	141.1	139.5	139.9
40°	915.8	792.8	436.3	159.2	143.4	142.1	138.5	133.6	130.5	129.6	129.6
42.5°	926.5	783.7	376.0	146.6	138.1	135.7	129.9	124.2	121.8	121.8	121.6
45°	959.4	787.4	318.5	139.7	133.1	128.6	121.0	116.2	114.7	115.0	114.9
47.5°	1018.5	810.6	269.3	135.1	128.2	122.3	113.7	109.9	108.1	108.1	108.2
50°	1118.8	864.9	230.1	131.3	124.1	116.5	108.5	103.8	101.3	101.2	101.2
52.5°	1265.0	962.0	205.7	128.0	119.4	111.3	103.3	97.3	94.4	93.8	93.4
55°	1448.2	1101.3	198.9	125.9	113.3	105.6	97.0	91.0	87.8	86.4	86.3
57.5°	1653.1	1270.7	212.3	123.2	106.9	98.8	90.1	84.4	81.0	79.3	79.2
60°	1860.5	1455.6	266.8	119.6	101.7	91.5	83.0	77.8	74.4	72.6	72.3
62.5°	2068.1	1650.5	378.3	119.2	98.1	84.4	75.7	71.4	68.1	66.1	65.7
65°	2302.3	1863.8	504.9	127.4	96.9	78.0	68.4	64.8	62.1	60.3	60.1
67.5°	2571.4	2104.6	492.8	144.2	101.0	72.1	61.5	58.7	56.7	55.1	55.1
70°	2697.6	2067.0	306.3	156.0	106.8	66.4	54.9	52.9	51.3	50.3	49.8
71°	2644.7	1962.7	256.8	154.6	106.2	63.9	52.3	50.8	49.2	48.3	47.8
72.5°	2500.5	1789.9	214.3	143.8	99.3	59.5	48.9	47.3	45.9	44.9	44.6
75°	2243.8	1598.5	171.5	115.0	79.2	50.3	42.9	41.2	40.1	39.5	38.8
77.5°	1649.4	1140.8	132.7	90.8	58.2	41.1	36.6	35.4	34.3	33.3	32.9
80°	631.9	441.9	89.3	67.8	42.8	32.4	29.5	28.9	27.9	27.2	27.2
82.5°	170.2	132.0	47.7	41.1	28.6	23.7	22.6	22.3	21.3	20.1	20.3
85°	68.8	58.2	26.7	22.6	17.5	14.0	15.2	15.4	14.3	12.8	12.9
87.5°	30.3	24.8	14.9	10.0	7.7	5.4	6.9	6.9	6.3	5.2	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)