

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: P382719

Luminaire Tested: **GLEON-SA1A-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
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-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4545 lumens  
Efficiency: N/A  
Efficacy: 133.7 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

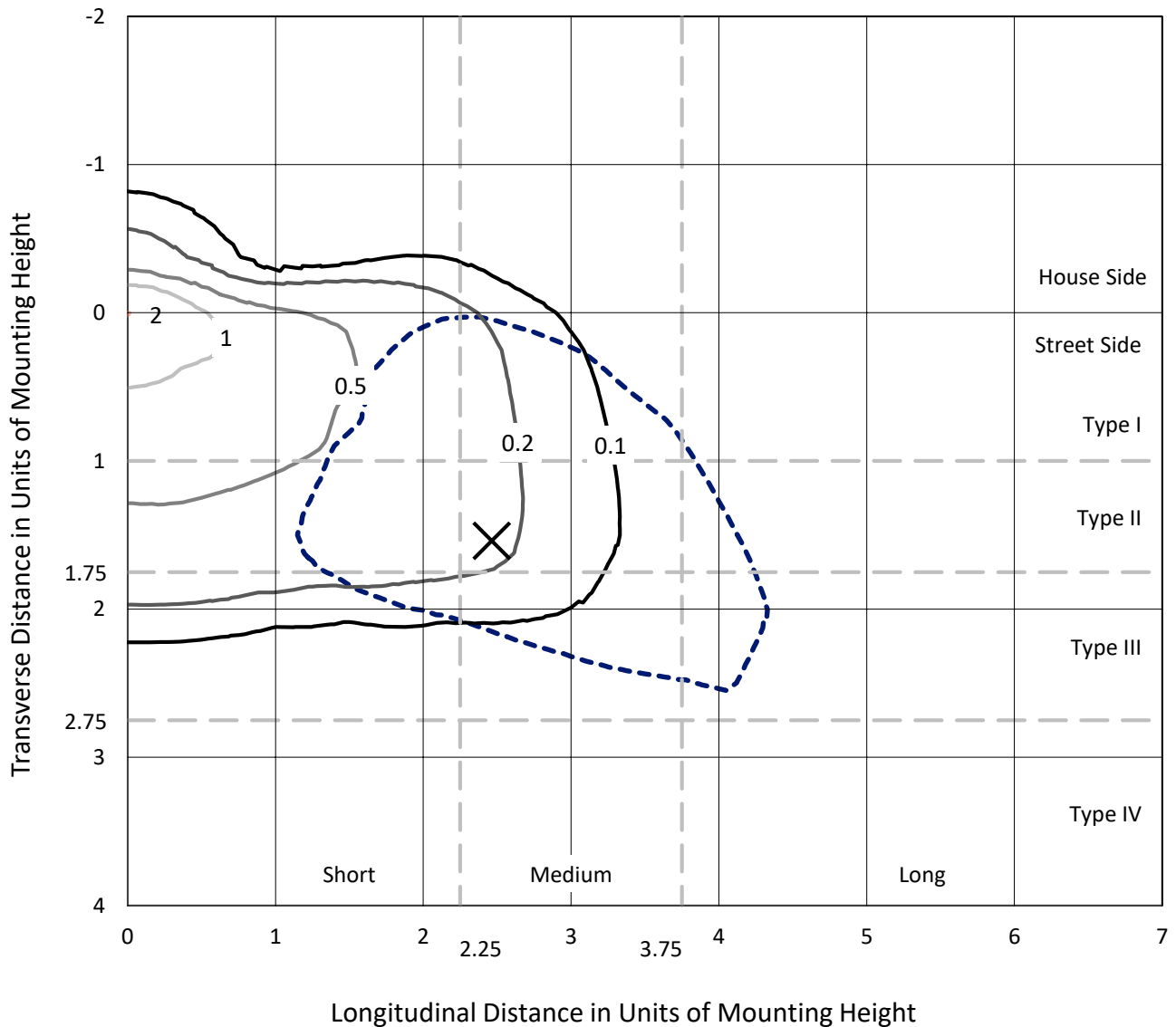
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

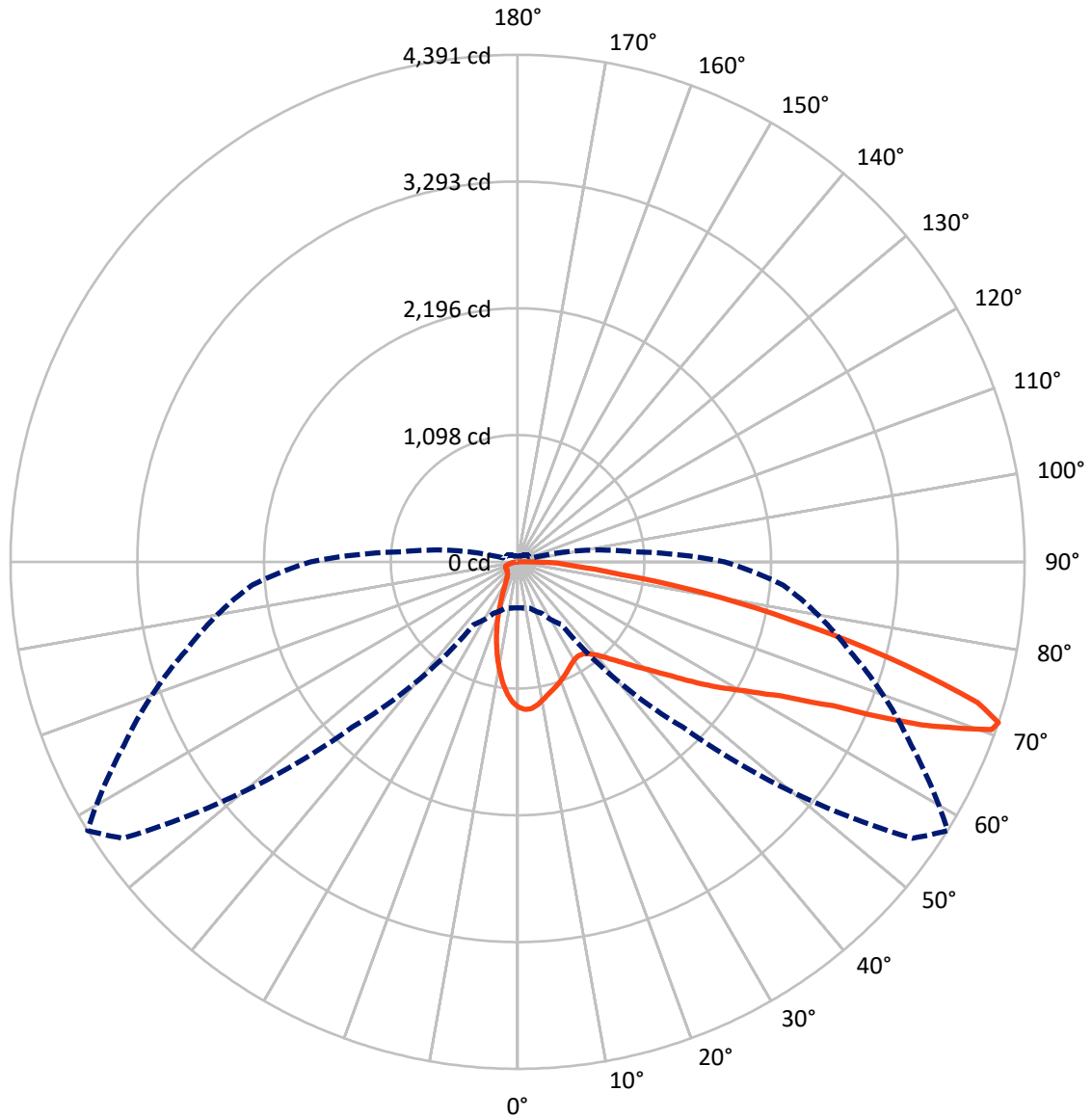
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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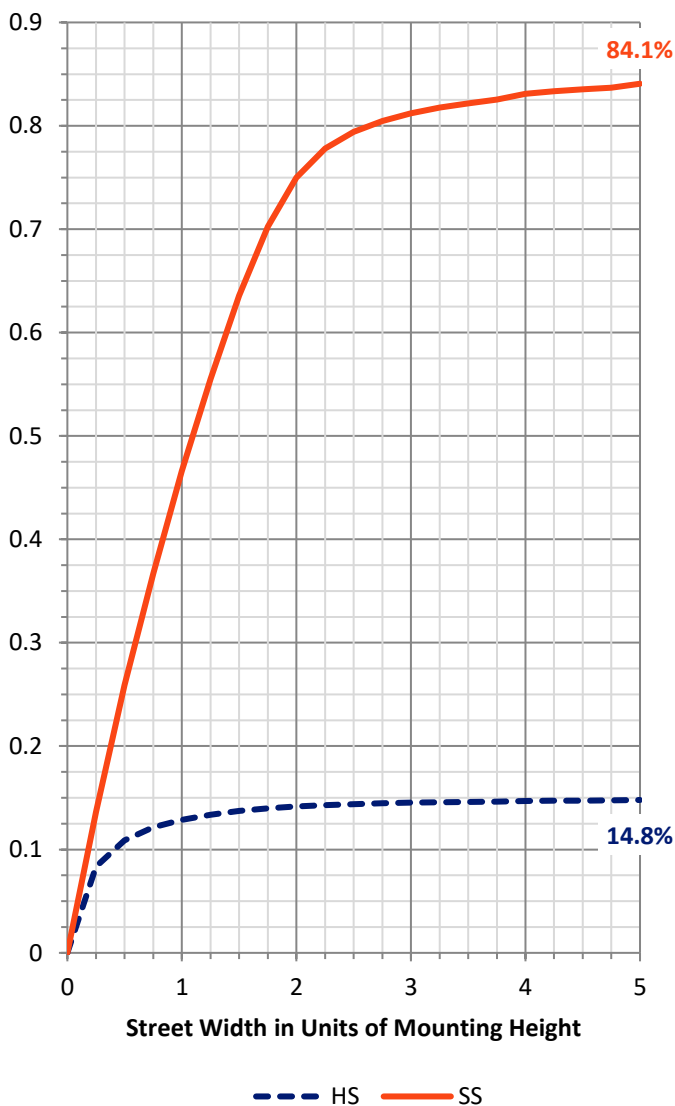
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	679.5	0.0	679.5
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	3865.5	0.0	3865.5
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	4545.0	0.0	4545.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.6	2.4
10°-20°	241.6	5.3
20°-30°	307.0	6.8
30°-40°	391.1	8.6
40°-50°	554.6	12.2
50°-60°	858.2	18.9
60°-70°	1168.3	25.7
70°-80°	779.4	17.1
80°-90°	136.3	3.0
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°	4545.0	100.0
0°-180°	4545.0	100.0

**Coefficient of Utilization**

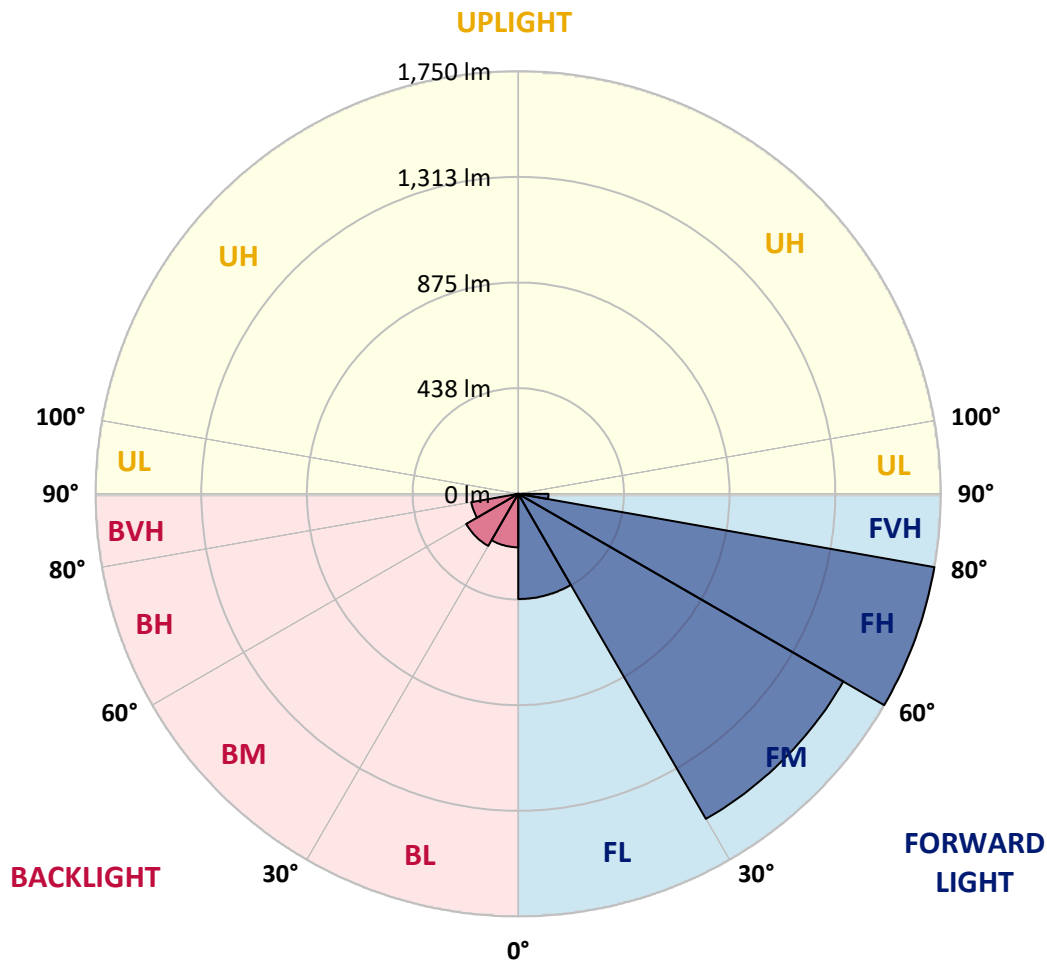


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	435.7	9.6			
FM (30°-60°)	1554.6	34.2			
FH (60°-80°)	1750.2	38.5			G1/1800
FVH (80°-90°)	125.0	2.7			G2/225
BL (0°-30°)	221.5	4.9	B1/500		
BM (30°-60°)	249.2	5.5	B1/1000		
BH (60°-80°)	197.5	4.3	B1/500		G1/500
BVH (80°-90°)	11.3	0.2			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°	58°	65°	75°	85°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1292.7	1290.9	1291.6	1290.3	1287.3	1284.3	1279.9	1280.7	1274.5	1265.3	1253.9
5°	1268.3	1267.6	1272.4	1275.1	1277.3	1275.6	1274.4	1275.9	1266.9	1254.2	1234.4
7.5°	1217.2	1210.2	1216.2	1225.3	1233.7	1240.3	1248.8	1250.0	1244.3	1230.9	1205.0
10°	1144.5	1137.9	1146.7	1160.8	1177.9	1193.4	1210.6	1213.8	1214.9	1202.9	1171.4
12.5°	1069.1	1064.1	1073.0	1092.7	1121.0	1145.0	1172.5	1177.3	1187.1	1179.0	1140.4
15°	1001.7	999.8	1010.5	1030.0	1062.6	1099.2	1138.9	1147.7	1164.2	1161.5	1116.2
17.5°	943.5	942.9	951.2	971.6	1007.7	1054.0	1105.6	1120.3	1145.0	1148.1	1096.2
20°	900.1	899.1	904.8	919.8	957.1	1009.4	1069.4	1089.7	1125.3	1136.4	1075.7
22.5°	876.8	876.6	876.8	883.9	914.3	963.0	1034.3	1059.0	1106.2	1127.1	1052.8
25°	872.9	872.3	868.9	868.1	885.3	924.3	999.5	1026.7	1088.0	1120.6	1031.1
27.5°	883.1	883.8	879.2	871.7	875.2	898.8	969.3	998.3	1073.4	1119.3	1016.1
30°	904.4	904.2	900.2	892.4	885.6	889.3	947.7	976.8	1063.5	1124.8	1005.8
32.5°	928.1	929.8	929.0	924.7	914.6	900.1	941.2	969.7	1060.8	1138.2	1001.4
35°	956.4	958.3	964.0	967.3	955.5	932.0	955.1	979.8	1069.0	1163.1	1008.5
37.5°	983.3	988.2	1004.2	1018.3	1008.2	982.0	992.2	1009.8	1094.5	1202.6	1027.7
40°	1014.4	1018.6	1044.7	1074.6	1073.0	1046.0	1051.9	1063.5	1139.5	1259.1	1062.3
42.5°	1044.9	1053.5	1091.3	1133.7	1145.9	1122.0	1131.4	1137.5	1202.7	1334.0	1122.8
45°	1085.6	1094.8	1147.4	1198.4	1226.9	1213.5	1228.4	1230.8	1282.4	1436.0	1210.6
47.5°	1147.2	1157.6	1218.9	1272.6	1316.1	1317.6	1342.1	1341.1	1381.9	1552.6	1321.3
50°	1243.2	1258.1	1308.4	1358.6	1411.4	1440.8	1473.6	1469.1	1501.0	1676.9	1448.7
52.5°	1368.8	1375.8	1413.0	1450.0	1515.7	1581.8	1628.8	1624.7	1636.3	1804.7	1593.5
55°	1499.1	1504.4	1519.7	1539.9	1628.3	1735.9	1835.4	1828.9	1799.7	1937.3	1736.4
57.5°	1616.3	1626.9	1637.5	1645.9	1741.7	1897.2	2046.8	2047.3	1976.9	2080.5	1884.1
60°	1634.5	1643.8	1714.0	1780.2	1935.6	2112.1	2273.0	2268.2	2160.4	2235.8	2048.8
62.5°	1444.8	1465.9	1583.1	1759.1	2122.4	2505.4	2561.6	2555.8	2379.8	2427.2	2240.6
65°	1035.4	1059.4	1200.7	1465.2	2031.9	2938.8	3082.5	3003.7	2679.1	2662.6	2465.1
67.5°	597.3	603.1	664.3	876.8	1547.1	2961.4	3877.1	3766.7	3143.8	2929.7	2574.9
70°	441.7	441.6	456.1	539.6	837.2	2416.9	4255.0	4354.0	3632.9	3017.6	2419.6
71°	399.4	399.9	416.2	491.1	663.1	2023.0	4174.7	4391.3	3761.9	2974.2	2307.2
72.5°	341.7	343.3	365.9	440.4	557.7	1395.1	3828.9	4167.1	3823.0	2867.2	2131.3
75°	259.2	262.8	294.2	371.2	509.7	707.5	2810.2	3327.6	3396.1	2530.0	1583.6
77.5°	184.9	189.0	224.5	312.2	484.6	533.2	1881.9	2427.2	2499.2	1621.4	714.3
80°	116.8	121.8	148.5	248.4	455.3	506.3	1182.7	1631.5	1362.9	518.8	181.7
82.5°	68.6	72.4	92.1	162.3	371.9	487.7	695.8	904.3	530.3	156.8	82.6
85°	39.8	41.5	57.5	103.4	270.1	460.3	511.2	505.6	230.2	76.7	39.1
87.5°	18.5	20.6	34.0	54.0	149.9	333.6	404.0	349.1	143.1	36.0	18.4
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°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1248.4	1245.7	1234.4	1224.4	1214.0	1200.4	1185.3	1183.4	1174.2	1176.0	1172.8
5°	1223.7	1216.9	1189.8	1165.3	1136.3	1110.3	1082.1	1069.1	1050.4	1049.2	1044.5
7.5°	1188.4	1175.7	1133.7	1087.2	1040.6	996.3	952.4	923.6	894.2	881.7	880.6
10°	1148.6	1127.1	1065.3	996.5	929.3	864.6	801.9	755.5	713.7	693.9	693.2
12.5°	1111.0	1079.1	994.4	900.7	808.9	724.9	638.9	578.0	525.6	508.1	500.6
15°	1078.9	1034.1	925.4	805.5	694.1	577.6	479.7	415.6	367.1	350.4	347.2
17.5°	1047.9	990.3	854.6	709.5	574.7	446.6	348.6	301.0	275.2	268.4	268.2
20°	1017.1	945.1	780.6	611.1	459.3	334.1	268.0	246.7	237.9	237.2	235.9
22.5°	982.0	897.4	702.9	512.4	358.5	262.7	227.9	219.3	218.2	221.1	221.1
25°	949.2	849.9	624.1	415.9	278.8	219.1	203.4	201.7	204.7	209.8	210.3
27.5°	918.7	804.1	547.2	330.1	223.4	193.0	186.5	188.5	193.9	199.8	200.0
30°	893.5	760.9	472.4	260.1	188.7	173.5	172.4	176.5	182.4	187.0	188.1
32.5°	874.1	724.0	400.2	209.1	166.1	158.9	159.9	163.4	167.0	169.5	171.3
35°	865.0	692.3	333.6	176.3	151.7	147.7	149.0	150.9	152.5	154.4	155.8
37.5°	866.6	667.8	274.1	155.9	142.0	139.9	139.9	139.9	139.9	140.9	141.0
40°	881.3	653.7	225.6	143.0	135.5	133.3	131.5	130.0	128.7	129.4	129.0
42.5°	919.1	652.5	190.1	134.7	130.3	126.7	123.2	120.9	119.3	120.0	120.4
45°	983.0	668.3	166.3	128.8	125.4	119.9	115.4	113.0	112.0	114.0	114.3
47.5°	1065.8	702.8	151.7	124.6	120.8	113.6	108.8	106.6	106.8	109.8	110.7
50°	1172.5	758.8	144.7	121.9	117.7	108.2	103.2	101.4	102.3	106.6	107.5
52.5°	1289.6	839.6	145.5	121.1	115.6	104.1	98.9	96.7	98.3	102.3	103.0
55°	1424.9	936.6	158.6	122.2	112.5	101.6	95.5	91.7	93.0	96.6	97.3
57.5°	1575.2	1047.8	185.1	121.9	108.8	99.3	91.9	86.2	87.1	89.3	89.9
60°	1731.6	1182.0	226.1	122.9	107.0	96.4	86.9	79.8	79.5	81.4	81.7
62.5°	1919.3	1337.3	272.9	123.5	108.2	92.8	80.4	73.5	72.5	72.9	73.3
65°	2112.7	1449.8	255.3	120.9	111.6	89.8	74.7	67.3	65.6	65.2	65.4
67.5°	2118.8	1329.2	179.0	115.9	113.0	88.2	70.4	62.0	59.2	58.1	57.9
70°	1900.2	1079.9	139.5	110.5	107.3	85.6	66.5	57.8	53.5	51.8	51.6
71°	1793.4	994.1	132.2	107.8	103.0	83.1	64.7	55.9	51.4	49.6	49.3
72.5°	1626.1	891.2	123.3	103.5	94.8	76.7	61.4	53.2	48.6	46.4	45.9
75°	1166.9	582.8	105.9	92.3	78.5	61.1	53.8	47.8	43.9	41.2	40.8
77.5°	449.7	232.0	80.1	76.8	60.2	47.8	44.3	41.4	38.5	35.8	35.6
80°	139.0	103.7	58.4	57.8	43.5	35.6	34.5	33.7	32.6	29.8	29.2
82.5°	74.2	59.5	40.2	37.4	28.5	23.8	25.1	25.3	25.5	22.5	22.2
85°	35.5	31.5	22.6	21.2	16.6	13.3	15.4	16.6	16.8	13.8	12.9
87.5°	17.0	16.5	10.6	8.1	6.1	4.5	5.4	6.6	7.3	5.2	4.6
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)