

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: P382816

Luminaire Tested: **GLEON-SA1D-735-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1D-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5820.3 lumens  
Efficiency: N/A  
Efficacy: 86.9 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

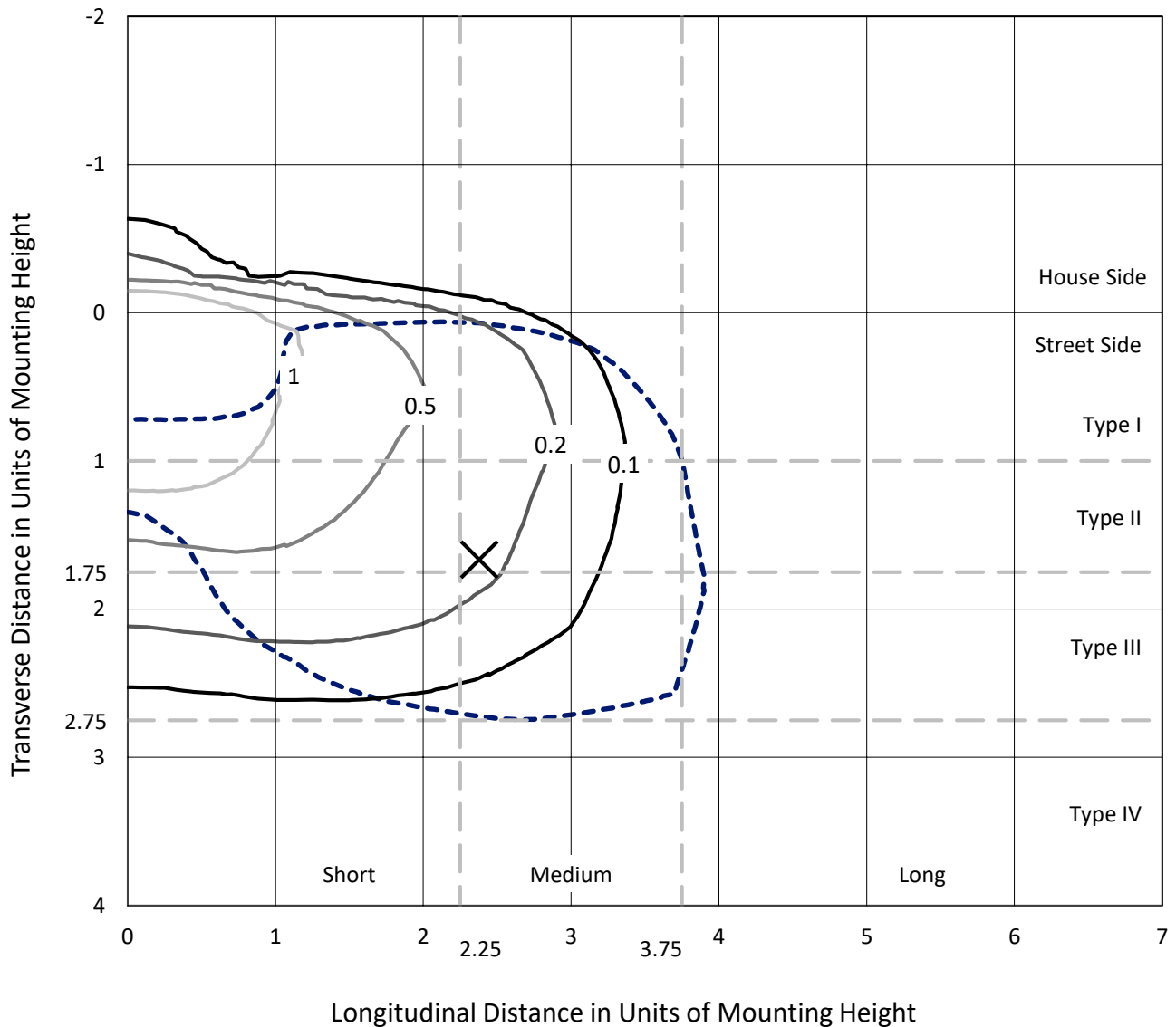
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

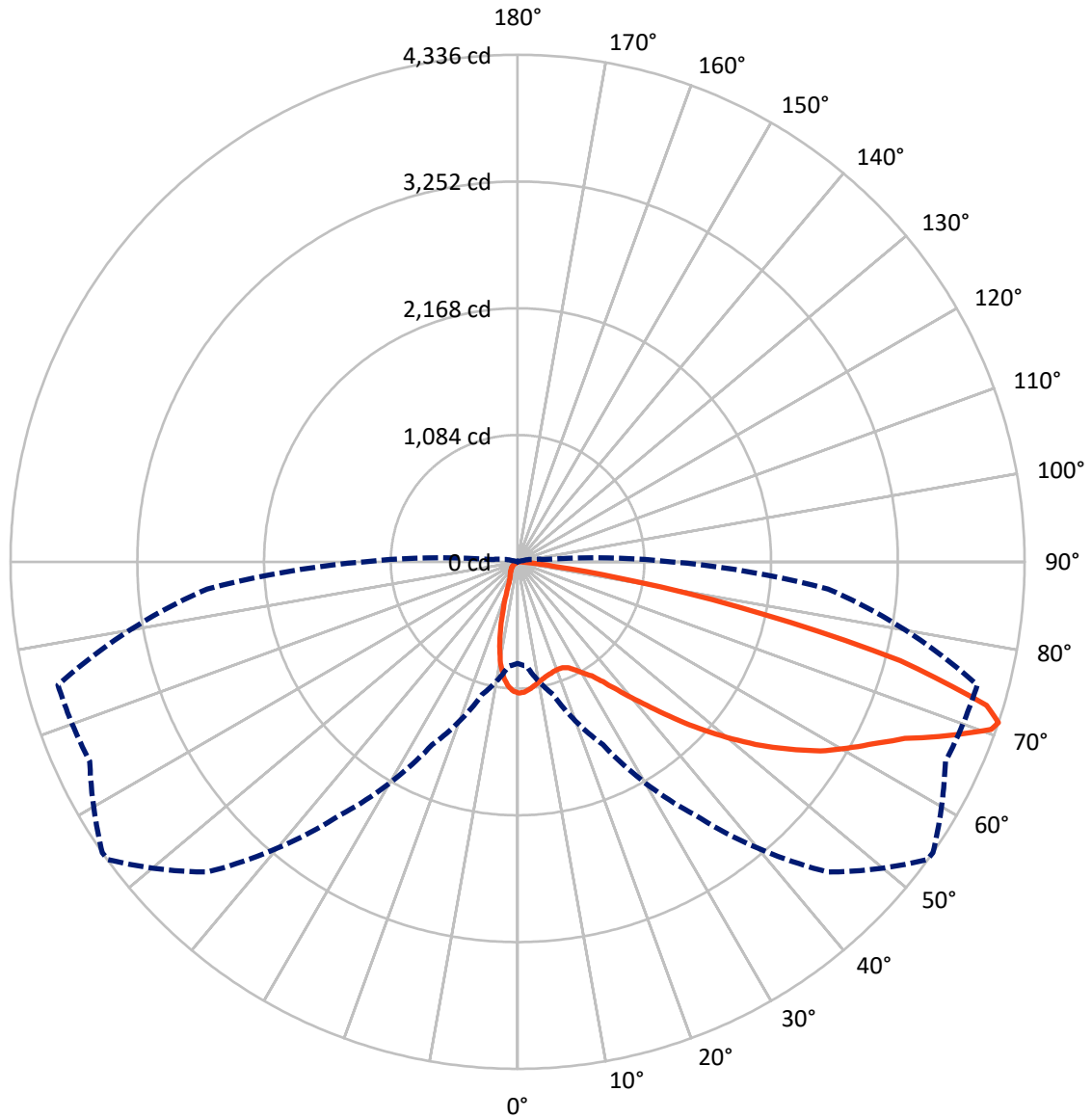
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical



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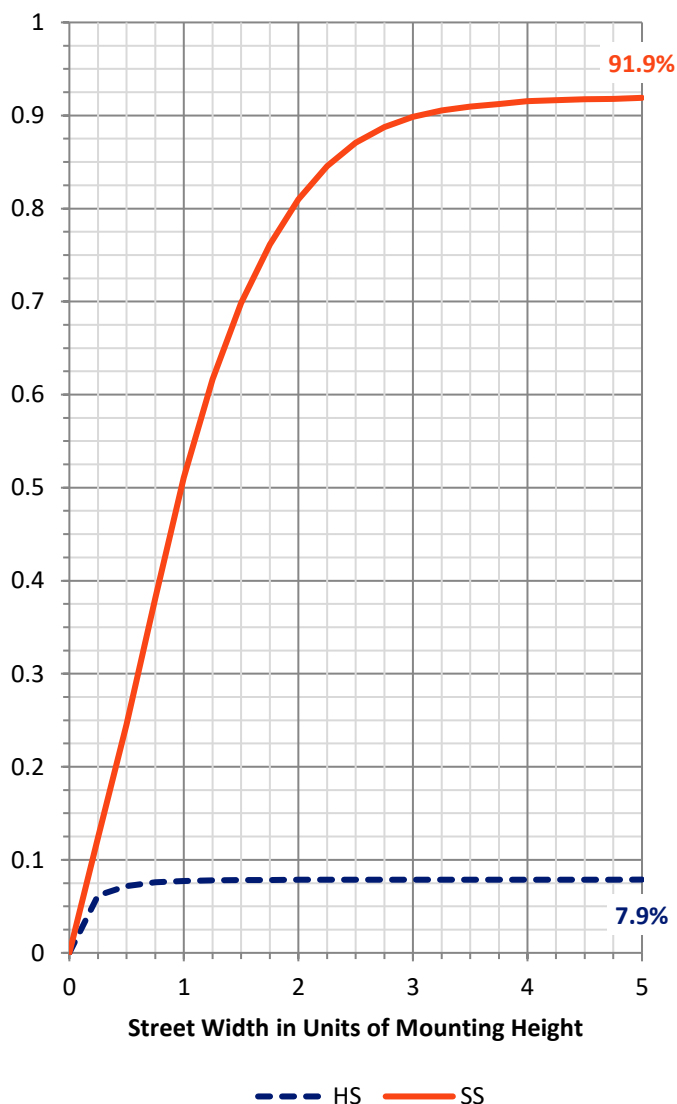
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	460.8	0.0	460.8
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	5359.5	0.0	5359.5
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	5820.3	0.0	5820.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.7	1.6
10°-20°	216.1	3.7
20°-30°	347.2	6.0
30°-40°	589.9	10.1
40°-50°	915.7	15.7
50°-60°	1231.1	21.2
60°-70°	1506.0	25.9
70°-80°	880.5	15.1
80°-90°	38.1	0.7
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°	5820.3	100.0
0°-180°	5820.3	100.0

**Coefficient of Utilization**

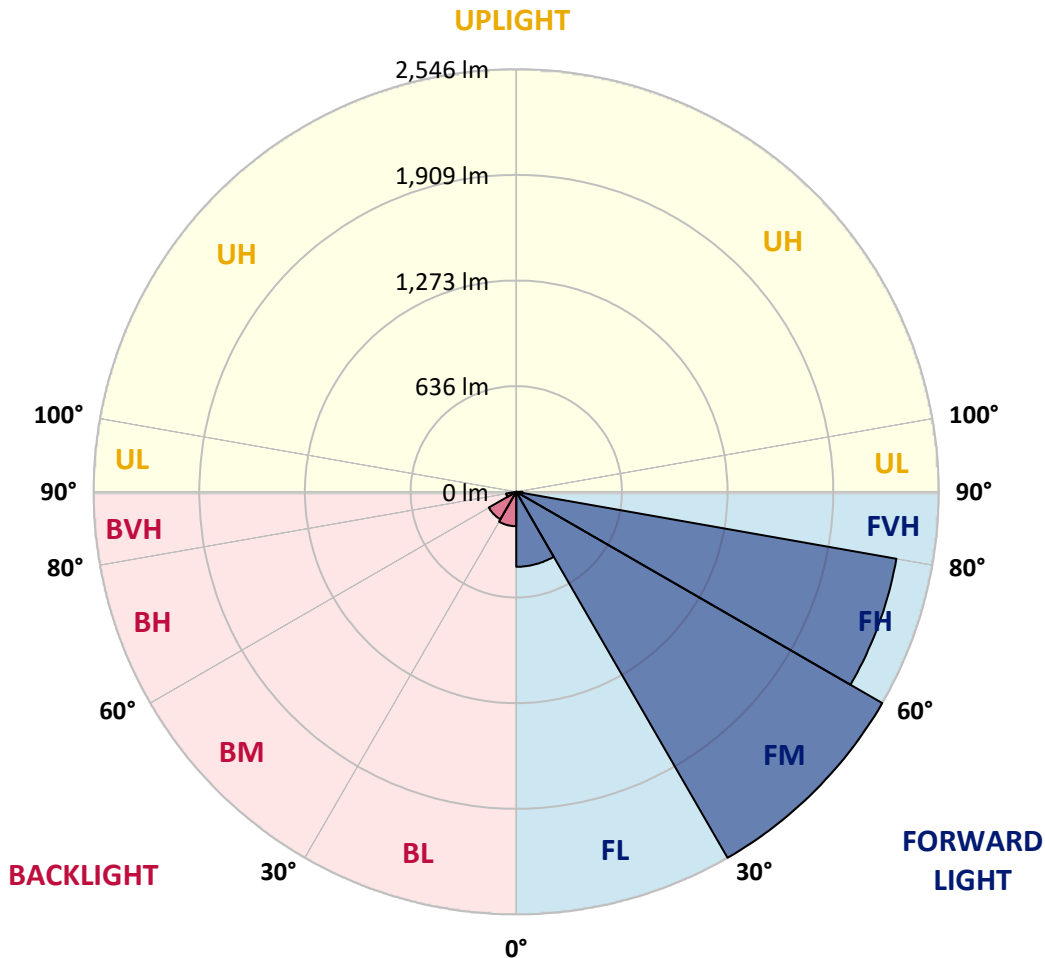


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.6	7.8			
FM (30°-60°)	2545.6	43.7			
FH (60°-80°)	2324.8	39.9			G2/5000
FVH (80°-90°)	37.5	0.6			G1/100
BL (0°-30°)	207.4	3.6	B1/500		
BM (30°-60°)	191.1	3.3	B0/220		
BH (60°-80°)	61.7	1.1	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4
2.5°	1089.5	1090.8	1095.6	1097.6	1102.6	1111.0	1115.2	1115.4	1122.2	1124.8	1126.9
5°	1012.4	1020.3	1028.1	1036.4	1051.6	1071.7	1091.6	1093.5	1115.4	1131.6	1140.2
7.5°	946.1	953.2	962.6	975.9	997.3	1028.9	1062.1	1066.1	1107.6	1144.4	1163.8
10°	877.9	883.6	897.2	916.8	946.4	988.7	1033.4	1039.9	1100.5	1161.6	1195.6
12.5°	805.0	808.3	824.8	853.0	896.4	950.3	1009.1	1017.6	1096.1	1181.6	1233.3
15°	749.5	751.1	766.8	796.0	845.7	915.7	990.2	1000.7	1097.1	1205.3	1274.3
17.5°	735.5	736.2	744.6	764.7	808.6	884.9	975.3	988.1	1100.3	1228.6	1315.6
20°	792.7	787.2	778.5	775.4	794.2	866.3	966.5	980.8	1104.4	1249.2	1352.7
22.5°	949.7	933.5	897.7	849.9	820.9	867.6	968.8	983.2	1117.8	1274.5	1395.6
25°	1182.9	1160.3	1099.5	1005.4	915.0	905.3	988.4	1003.0	1143.7	1304.9	1436.6
27.5°	1448.1	1425.9	1351.4	1217.1	1062.9	979.8	1033.4	1047.0	1182.0	1331.8	1467.9
30°	1702.1	1695.9	1608.0	1455.4	1248.9	1100.5	1091.4	1102.9	1210.5	1348.0	1492.8
32.5°	1917.5	1907.5	1837.0	1688.5	1462.0	1245.6	1159.6	1162.9	1232.0	1368.9	1525.2
35°	2117.1	2104.8	2042.9	1902.6	1680.4	1422.8	1264.7	1259.6	1278.7	1411.0	1572.3
37.5°	2291.4	2302.7	2233.9	2100.5	1876.4	1607.0	1406.3	1391.4	1352.0	1479.5	1640.5
40°	2437.3	2437.3	2401.4	2290.1	2088.2	1797.5	1566.5	1546.9	1462.0	1585.0	1727.0
42.5°	2489.8	2501.0	2514.3	2451.4	2277.6	1995.7	1745.0	1724.6	1616.9	1734.8	1836.2
45°	2492.9	2510.7	2578.9	2578.7	2448.8	2192.4	1946.2	1936.6	1815.6	1927.2	1971.5
47.5°	2448.8	2471.0	2583.4	2647.2	2584.4	2375.6	2166.3	2154.2	2048.9	2162.9	2113.2
50°	2380.6	2405.2	2535.8	2674.1	2676.7	2535.0	2398.1	2380.0	2305.9	2432.4	2259.6
52.5°	2258.5	2306.0	2493.2	2680.3	2737.3	2672.8	2618.7	2610.8	2593.3	2691.8	2376.1
55°	1997.4	2050.2	2386.3	2682.4	2793.5	2794.8	2825.4	2827.4	2862.7	2934.4	2462.9
57.5°	1874.1	1903.9	2199.8	2692.4	2876.9	2933.4	3036.0	3052.2	3106.8	3164.6	2561.9
60°	1796.5	1831.8	2107.7	2678.8	3007.8	3114.9	3231.3	3236.8	3295.3	3402.2	2696.0
62.5°	1734.5	1769.3	2049.7	2626.5	3155.0	3333.4	3422.0	3422.5	3466.5	3685.2	2848.4
65°	1581.7	1610.9	1932.4	2567.7	3252.1	3549.6	3643.7	3640.2	3676.1	3983.7	3025.3
67.5°	1360.5	1383.1	1692.7	2344.8	3215.5	3746.1	3978.2	3966.9	3923.6	4241.6	3094.8
70°	1051.9	1060.0	1334.2	1954.0	2872.7	3821.6	4301.4	4295.7	4075.3	4195.3	2840.0
71°	869.5	896.1	1175.8	1724.6	2643.0	3751.8	4332.8	4336.2	4037.2	4069.4	2664.7
72.5°	504.9	527.6	852.3	1324.5	2243.9	3460.7	4170.3	4194.9	3859.0	3701.4	2276.1
75°	108.2	115.8	316.0	641.1	1234.3	2425.6	3291.6	3379.2	3145.3	2518.1	1371.8
77.5°	75.3	81.3	135.4	290.8	407.9	1198.5	2044.7	2143.5	1879.0	946.4	439.0
80°	59.6	66.4	105.5	143.7	110.3	386.5	957.8	1018.2	626.7	211.2	74.0
82.5°	33.2	39.5	82.3	77.6	42.3	73.4	268.1	303.1	125.5	42.6	17.5
85°	9.7	11.7	53.1	56.5	18.1	14.1	45.7	56.7	23.8	11.3	7.8
87.5°	0.0	0.0	25.6	21.7	5.2	2.0	4.2	4.7	4.7	4.7	5.2
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4
2.5°	1126.9	1128.8	1122.2	1113.6	1104.4	1093.2	1081.4	1072.3	1072.0	1067.6	1063.2
5°	1140.8	1139.7	1121.7	1094.3	1061.9	1028.1	996.0	959.7	947.7	932.8	927.7
7.5°	1166.4	1159.0	1120.9	1060.8	989.7	919.2	846.2	772.8	741.4	713.2	708.3
10°	1198.5	1184.6	1115.9	1010.6	880.2	750.1	640.1	540.2	496.3	462.6	461.0
12.5°	1232.0	1210.8	1102.1	934.8	736.8	553.8	427.0	328.7	292.2	268.7	270.7
15°	1267.0	1235.3	1072.3	832.6	573.4	375.8	262.4	204.7	190.0	184.0	185.6
17.5°	1302.8	1252.4	1030.8	709.6	412.1	242.5	181.7	165.4	165.4	166.7	167.3
20°	1333.9	1261.5	969.6	571.6	279.4	176.6	158.9	156.5	157.9	159.9	160.2
22.5°	1364.7	1262.1	889.9	431.8	195.4	154.7	151.3	150.3	151.1	153.4	153.7
25°	1389.8	1255.7	790.0	307.0	156.0	145.8	144.3	143.7	144.3	147.1	147.1
27.5°	1400.0	1233.0	668.3	215.8	139.8	135.9	135.4	135.9	136.7	138.8	139.1
30°	1401.0	1193.3	535.5	156.3	126.8	122.6	123.6	125.5	124.6	124.2	124.6
32.5°	1403.7	1147.3	406.2	128.6	115.8	109.3	108.0	108.0	104.8	102.9	101.9
35°	1412.3	1093.2	294.6	115.5	104.5	97.0	92.0	86.3	80.2	77.1	76.3
37.5°	1425.9	1036.4	210.9	106.8	94.6	86.0	76.6	66.4	57.8	55.4	55.4
40°	1450.7	977.9	156.0	100.0	86.7	76.0	61.9	48.6	40.8	39.5	39.5
42.5°	1489.9	916.3	124.4	94.1	79.9	65.9	47.3	35.3	29.5	28.8	28.5
45°	1530.7	848.4	108.7	88.3	72.7	54.1	35.0	26.2	22.7	22.0	22.0
47.5°	1571.4	775.9	101.2	82.8	65.6	42.1	26.2	20.7	19.1	19.1	19.4
50°	1606.0	700.4	95.7	76.9	56.5	31.9	20.7	17.5	17.0	18.1	18.3
52.5°	1614.6	626.2	88.9	69.2	45.2	24.3	17.0	15.5	15.5	15.5	15.5
55°	1609.3	568.7	79.9	59.8	33.4	19.4	14.6	13.6	13.3	13.3	13.3
57.5°	1627.1	534.7	64.0	46.5	24.0	15.6	12.8	12.0	11.5	11.3	11.3
60°	1662.9	512.5	45.7	33.4	18.1	13.0	11.0	10.2	9.4	8.8	8.8
62.5°	1710.5	493.2	34.0	24.9	13.9	10.4	9.1	8.4	7.4	6.8	6.8
65°	1747.1	458.7	25.9	18.5	10.4	8.4	7.1	6.8	5.2	4.7	4.5
67.5°	1691.1	382.9	20.9	13.6	7.8	6.5	5.5	5.2	3.2	2.6	2.6
70°	1450.4	266.6	16.8	10.0	5.8	5.2	4.5	3.4	2.3	2.0	2.0
71°	1315.3	222.6	15.2	8.4	4.9	4.9	4.2	2.9	2.0	1.9	1.9
72.5°	1092.7	158.1	12.8	6.5	4.5	5.2	4.5	2.6	2.0	1.9	1.6
75°	634.3	66.1	8.8	4.5	3.4	6.2	5.8	2.3	1.6	1.3	1.3
77.5°	190.8	24.3	4.9	2.9	2.6	5.5	6.5	2.0	0.7	0.3	0.3
80°	34.7	10.4	3.2	1.9	1.9	3.4	4.9	1.0	0.0	0.0	0.0
82.5°	12.3	5.2	1.9	1.0	0.7	1.6	2.3	0.0	0.0	0.0	0.0
85°	7.1	3.6	1.0	0.6	0.0	0.3	0.6	0.0	0.0	0.0	0.0
87.5°	4.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)