

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: P318826

Luminaire Tested: **GLEON-SA2A-827-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318826  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2A-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7051 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

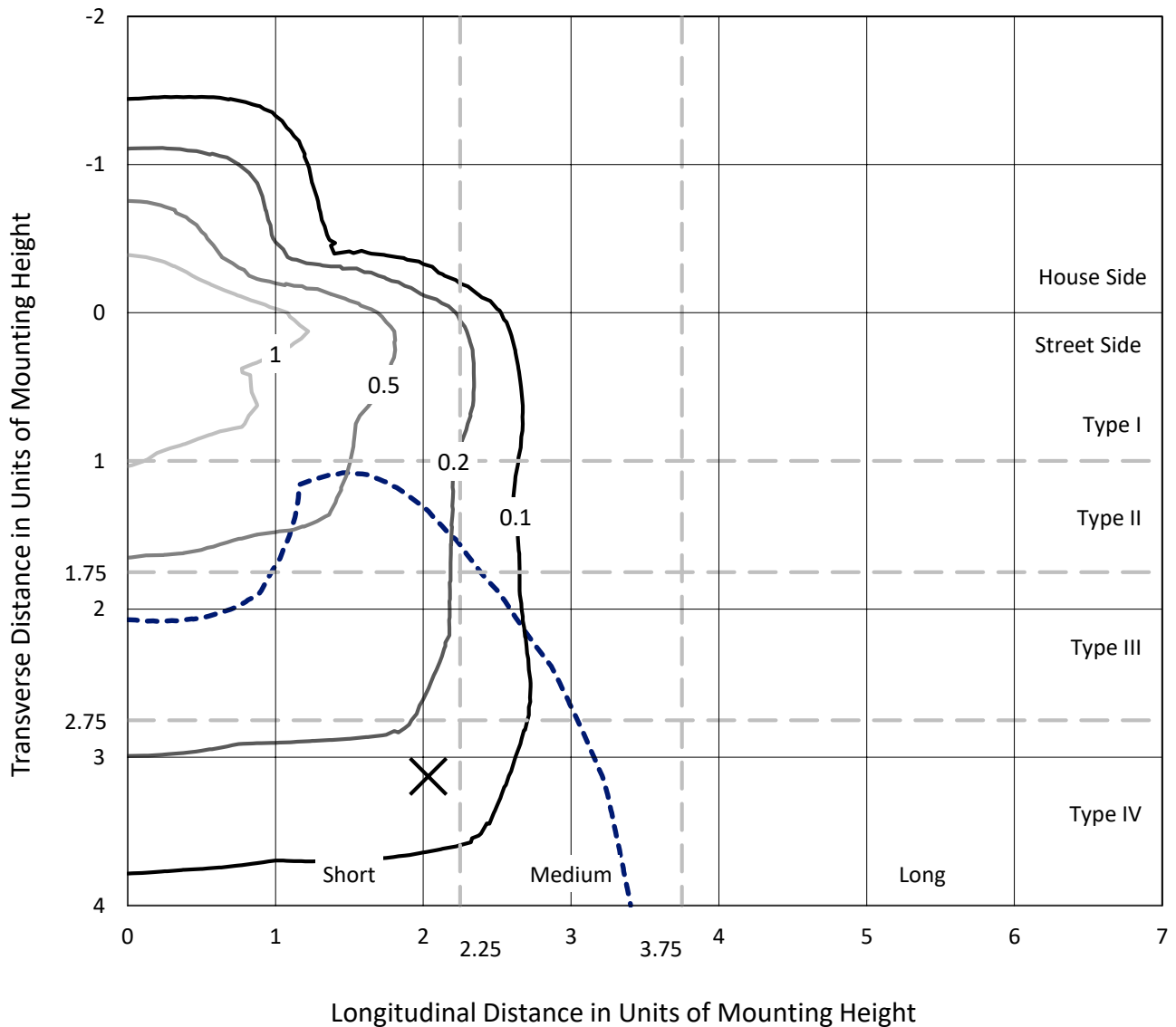
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

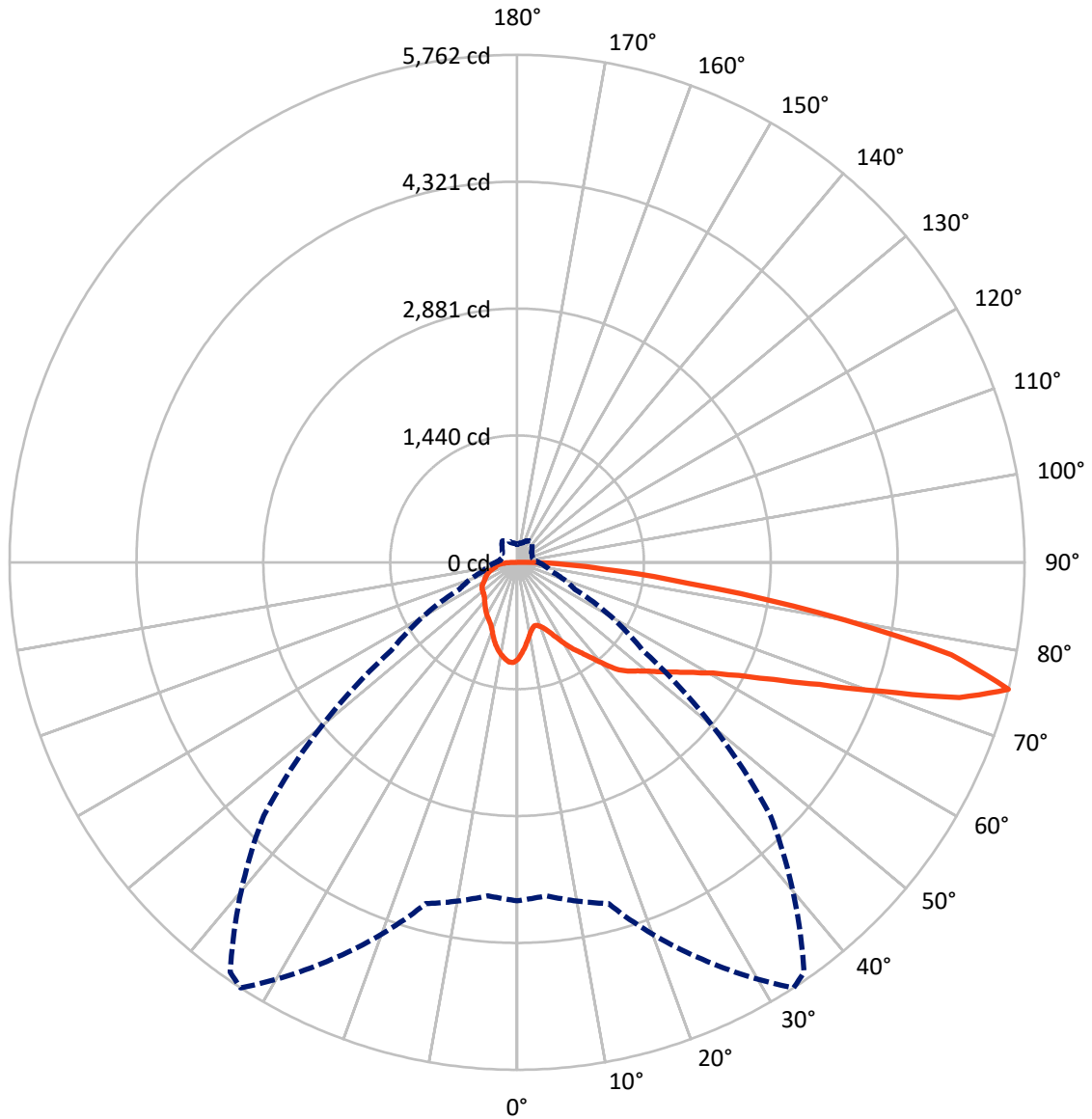
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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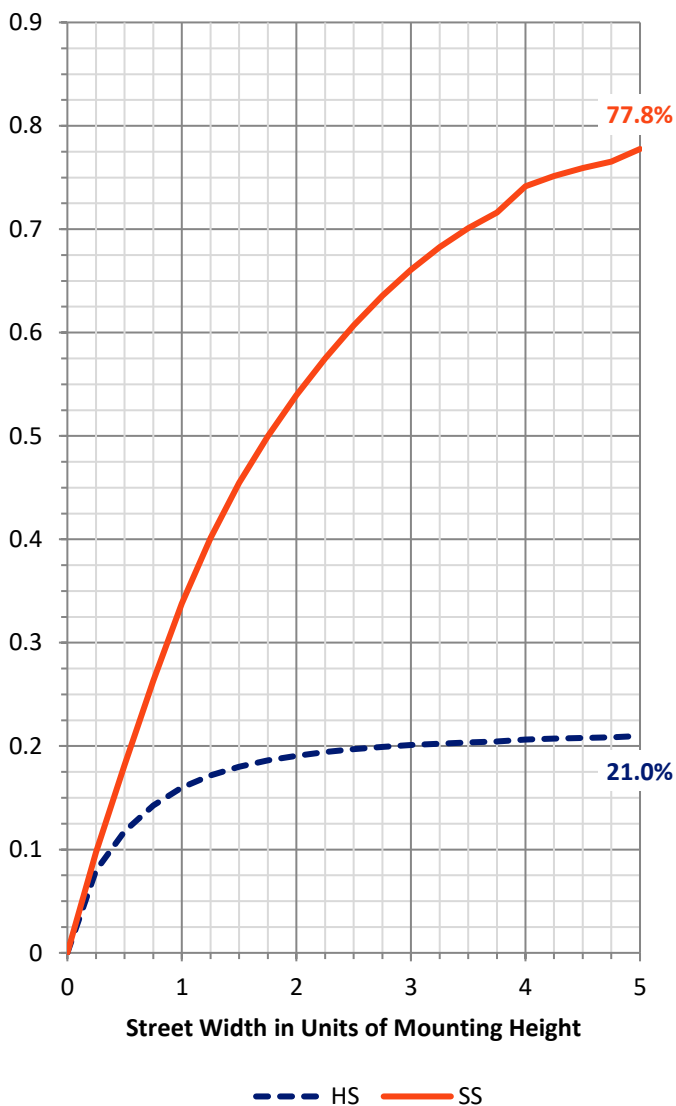
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1514.0	0.0	1514.0
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	5537.0	0.0	5537.0
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	7051.0	0.0	7051.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.7	1.4
10°-20°	270.0	3.8
20°-30°	440.9	6.3
30°-40°	656.6	9.3
40°-50°	941.7	13.4
50°-60°	1292.8	18.3
60°-70°	1618.5	23.0
70°-80°	1464.2	20.8
80°-90°	266.7	3.8
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°	7051.0	100.0
0°-180°	7051.0	100.0

**Coefficient of Utilization**



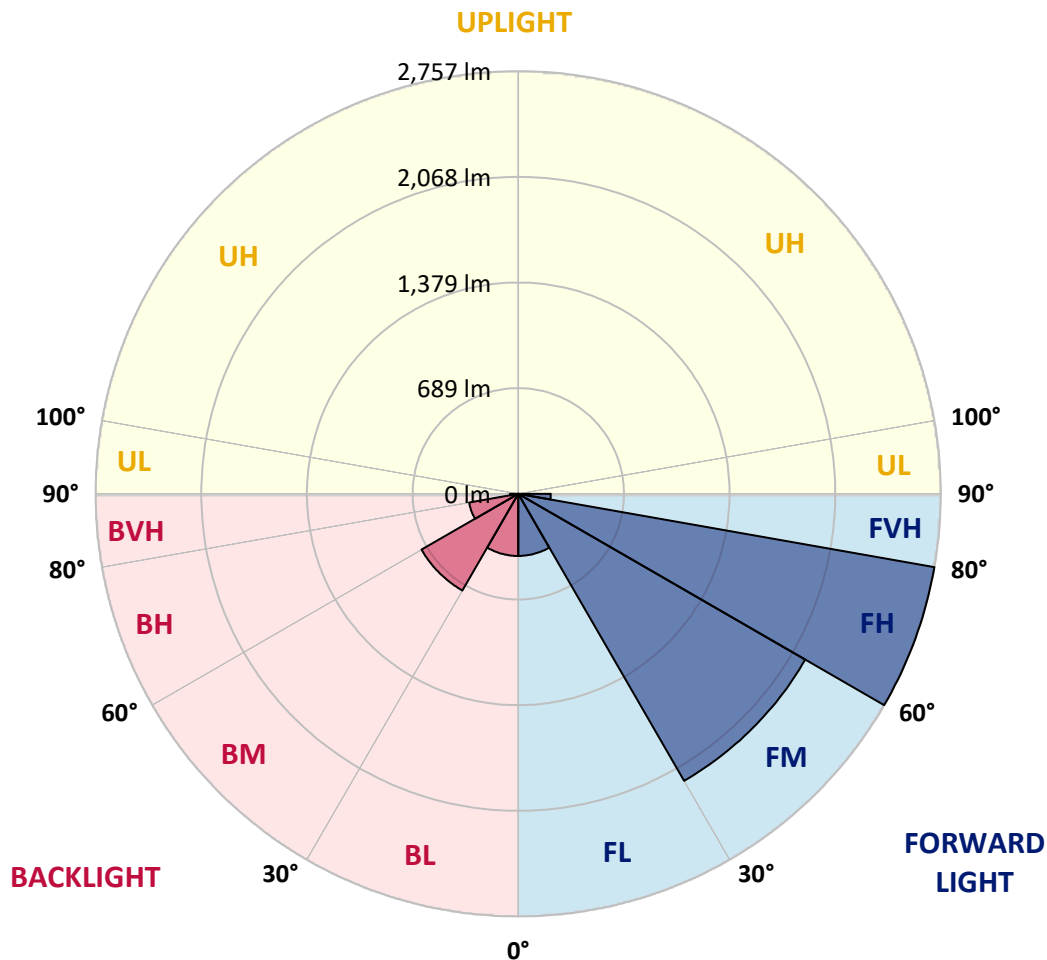
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.0	5.7			
FM (30°-60°)	2162.4	30.7			
FH (60°-80°)	2757.2	39.1			G2/5000
FVH (80°-90°)	212.4	3.0			G2/225
BL (0°-30°)	405.5	5.8	B1/500		
BM (30°-60°)	728.7	10.3	B1/1000		
BH (60°-80°)	325.5	4.6	B1/500		G1/500
BVH (80°-90°)	54.3	0.8			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1
2.5°	1023.4	1019.5	1026.9	1027.8	1034.2	1036.6	1045.4	1059.0	1070.2	1083.1	1094.8
5°	930.6	928.0	938.2	945.5	959.4	965.2	985.9	1014.9	1040.7	1070.0	1096.5
7.5°	842.5	841.0	852.5	869.0	885.1	893.1	928.9	971.1	1014.2	1061.4	1102.1
10°	768.2	767.7	778.7	795.0	818.6	827.6	873.9	929.4	989.8	1054.9	1111.6
12.5°	726.5	728.2	733.4	747.0	768.9	777.9	829.3	894.6	969.4	1052.7	1125.5
15°	736.8	739.4	730.7	730.2	745.8	752.8	801.1	869.8	954.8	1056.3	1145.7
17.5°	780.4	780.9	757.7	743.1	752.6	756.3	792.3	855.6	946.2	1064.6	1171.0
20°	841.7	840.5	799.6	775.3	780.4	781.3	804.7	855.9	945.5	1079.0	1203.9
22.5°	923.1	914.1	859.0	825.9	824.7	823.2	836.6	873.9	956.2	1102.4	1243.1
25°	1029.3	1020.8	945.0	899.7	890.0	886.3	888.3	912.4	977.4	1127.4	1287.0
27.5°	1147.4	1132.6	1059.5	995.4	975.2	970.1	958.4	966.7	1000.5	1151.6	1339.1
30°	1246.3	1238.3	1174.4	1098.5	1074.6	1067.3	1036.6	1027.6	1033.9	1184.4	1404.9
32.5°	1301.6	1296.2	1257.5	1196.1	1174.0	1163.7	1120.4	1102.4	1087.5	1236.3	1494.0
35°	1368.6	1365.2	1341.8	1297.2	1264.3	1253.6	1220.0	1201.2	1163.0	1307.7	1609.2
37.5°	1453.8	1450.2	1450.6	1414.6	1375.4	1365.4	1343.2	1323.5	1260.9	1401.4	1734.4
40°	1550.3	1543.2	1540.5	1538.8	1514.0	1508.4	1496.7	1469.9	1383.7	1513.5	1857.9
42.5°	1695.4	1670.3	1616.8	1637.0	1661.6	1658.6	1668.1	1629.7	1520.1	1646.0	1978.4
45°	1835.5	1794.3	1701.8	1706.1	1760.0	1776.3	1847.4	1820.1	1667.9	1791.1	2103.1
47.5°	1899.3	1868.1	1789.4	1789.7	1843.0	1876.9	2032.8	2013.3	1823.3	1956.0	2255.4
50°	1970.6	1939.5	1868.8	1895.4	1941.9	1978.0	2211.8	2201.8	1971.1	2136.5	2437.8
52.5°	2048.6	1995.7	1950.9	1998.4	2063.7	2105.6	2391.0	2363.8	2106.8	2318.2	2647.5
55°	2049.6	2035.2	2069.3	2104.1	2201.8	2253.2	2578.8	2506.7	2217.4	2496.7	2818.2
57.5°	2166.2	2142.8	2215.2	2231.3	2358.9	2416.8	2765.6	2631.2	2329.9	2633.6	2910.3
60°	2320.6	2300.7	2359.9	2402.2	2553.2	2630.7	2965.1	2759.1	2418.3	2736.9	2905.9
62.5°	2587.3	2564.7	2564.0	2623.4	2826.8	2916.9	3188.9	2884.5	2453.4	2757.3	2781.9
65°	2977.8	2941.7	2873.8	2902.0	3204.5	3294.4	3439.1	2975.3	2407.1	2647.7	2462.6
67.5°	3357.7	3356.5	3273.0	3330.9	3703.3	3775.4	3724.0	2984.3	2262.7	2266.1	1896.1
70°	3736.5	3741.3	3727.2	3928.9	4377.3	4452.3	4027.5	2863.3	1938.0	1636.5	1136.0
72.5°	4036.5	4035.3	4106.4	4626.4	5251.9	5235.1	4283.3	2496.5	1391.5	883.4	542.9
75°	3842.2	3799.8	4011.7	4971.8	5761.7	5679.6	4065.8	1741.5	722.2	402.1	292.3
77.5°	2506.0	2546.2	2857.2	4107.2	5039.8	4939.9	2982.9	812.5	340.3	263.8	211.9
80°	907.5	949.9	1337.9	2326.5	3472.2	3455.9	1468.9	333.9	230.2	199.2	154.4
82.5°	312.2	327.8	527.8	1033.2	1960.4	2033.5	552.6	189.7	167.3	141.3	105.7
85°	122.5	140.3	241.4	497.1	988.9	996.2	223.8	113.5	116.4	92.6	58.0
87.5°	46.5	56.5	115.4	230.9	451.6	414.8	80.1	54.1	66.2	55.0	27.5
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°	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1
2.5°	1103.8	1108.9	1119.6	1127.0	1134.7	1136.9	1137.9	1139.9	1141.8	1141.1	1141.3
5°	1110.6	1120.6	1137.9	1145.2	1148.6	1144.7	1137.2	1131.1	1126.7	1124.3	1123.5
7.5°	1121.8	1136.0	1154.5	1153.3	1145.5	1128.2	1108.7	1094.1	1081.9	1077.5	1075.1
10°	1136.7	1153.3	1166.2	1152.3	1129.6	1099.7	1070.4	1047.8	1029.5	1022.5	1021.2
12.5°	1155.7	1172.5	1174.9	1145.5	1108.0	1067.0	1027.3	997.4	970.1	961.3	959.4
15°	1180.3	1196.1	1181.0	1133.5	1081.2	1026.1	974.7	934.1	905.3	894.6	890.7
17.5°	1206.1	1221.2	1182.2	1113.8	1046.1	977.7	913.1	871.5	838.6	826.2	824.7
20°	1237.0	1243.9	1177.1	1085.5	997.9	914.8	846.9	807.6	790.1	781.3	780.4
22.5°	1275.3	1268.0	1165.4	1047.3	936.7	842.2	786.9	768.7	764.3	762.3	763.1
25°	1315.7	1293.3	1148.1	997.4	859.5	769.7	743.1	748.2	754.1	753.3	753.3
27.5°	1360.3	1319.1	1121.6	931.1	774.0	710.2	713.4	732.1	740.9	740.7	740.4
30°	1417.5	1348.4	1087.7	851.5	694.1	668.3	687.6	710.5	722.4	721.9	722.2
32.5°	1487.9	1380.5	1041.7	762.6	636.4	637.4	659.6	682.2	696.1	694.9	695.1
35°	1570.2	1416.5	979.4	674.9	598.2	612.8	630.3	646.2	659.3	657.6	655.9
37.5°	1659.9	1451.9	896.5	596.5	567.0	589.9	604.5	607.2	613.3	608.9	605.7
40°	1745.1	1478.9	789.9	532.2	535.6	570.4	579.9	569.2	558.2	556.8	552.4
42.5°	1819.4	1487.9	682.0	480.8	502.5	550.0	555.8	533.4	513.7	504.4	500.5
45°	1897.8	1491.1	581.4	437.7	470.6	531.7	538.0	508.1	480.3	460.3	453.8
47.5°	2000.4	1514.0	503.2	405.8	446.2	519.5	528.5	487.9	451.8	423.3	417.2
50°	2134.6	1559.3	439.6	381.4	430.4	511.5	521.7	468.1	428.4	394.1	388.0
52.5°	2283.6	1600.9	388.2	361.7	415.0	497.4	512.9	454.0	406.5	367.0	360.5
55°	2387.9	1569.0	346.8	341.2	395.1	477.1	500.8	442.1	375.1	340.7	334.9
57.5°	2407.8	1459.9	315.4	320.0	370.9	451.8	482.0	415.5	358.0	329.3	323.2
60°	2353.3	1307.9	292.0	300.6	345.1	419.9	446.9	396.8	341.7	317.1	312.0
62.5°	2216.2	1152.3	274.7	283.0	321.0	387.5	425.0	377.0	325.2	303.2	298.1
65°	1939.2	967.4	258.2	267.4	298.6	359.5	405.3	358.8	308.8	292.0	287.2
67.5°	1463.8	724.6	242.6	250.9	278.6	335.1	383.9	340.7	293.0	282.3	276.4
70°	862.0	453.8	224.8	233.6	257.7	309.8	361.0	321.0	273.3	268.4	260.9
72.5°	401.1	273.0	204.6	213.1	231.4	276.0	331.5	295.2	249.9	239.2	228.9
75°	239.4	199.7	180.7	188.3	201.2	239.9	294.5	268.9	227.7	213.6	202.9
77.5°	179.0	152.7	154.4	162.5	172.9	209.9	260.9	248.2	210.7	199.7	192.4
80°	128.8	115.9	125.9	134.7	145.6	191.0	249.9	229.4	190.5	175.9	169.0
82.5°	86.0	83.3	94.7	103.8	114.5	167.1	234.8	200.9	162.7	144.2	129.1
85°	47.5	50.2	63.8	67.7	77.0	117.6	192.4	161.5	122.5	98.6	94.3
87.5°	19.7	23.1	34.3	33.1	40.9	70.1	126.7	97.4	77.9	58.2	45.3
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)