

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: P190990

Luminaire Tested: **GLEON-AF-02-LED-E1-RW-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-RW-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8390.2 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 66
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

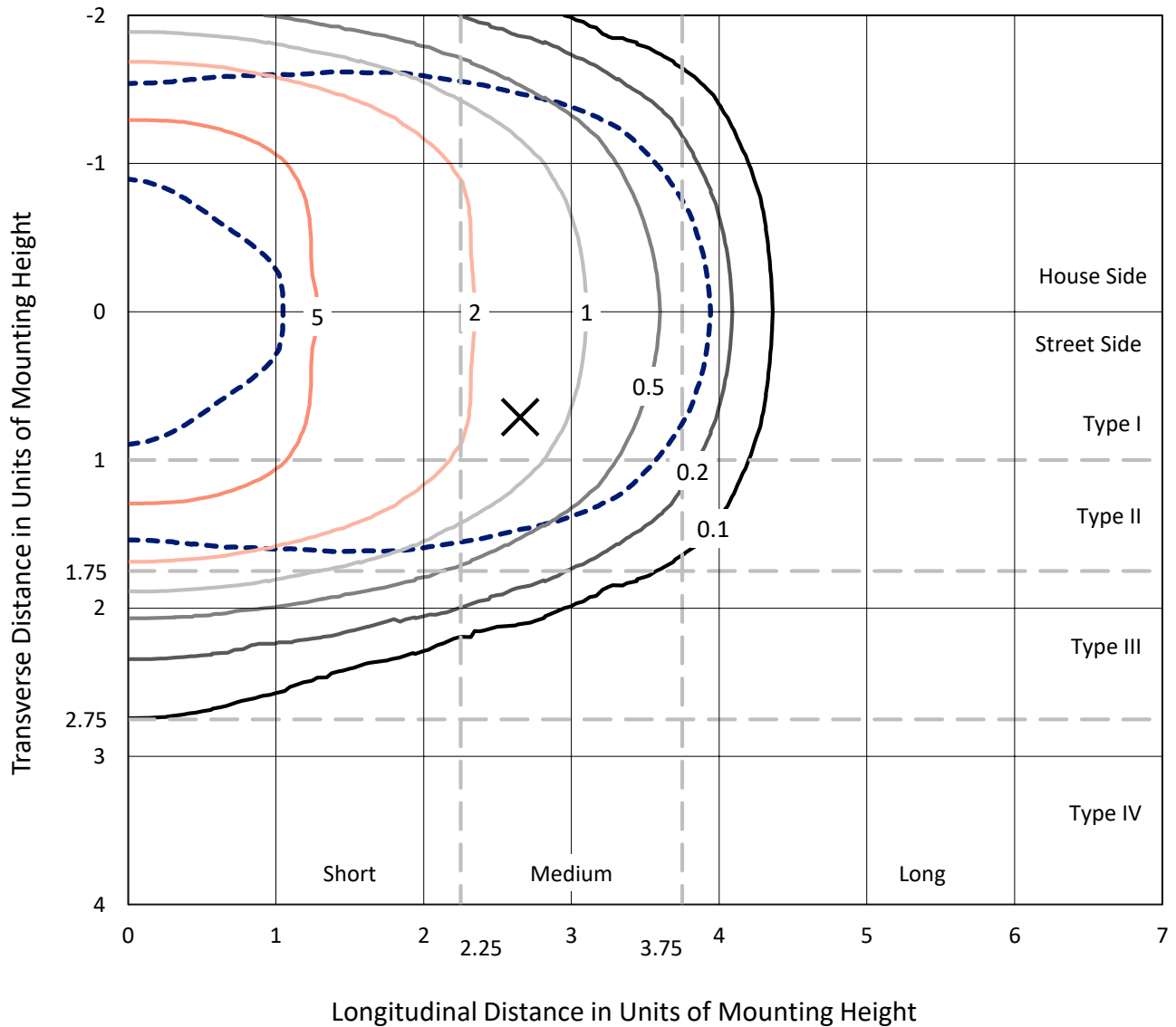


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Iso-Footcandle Lines of Horizontal Illumination

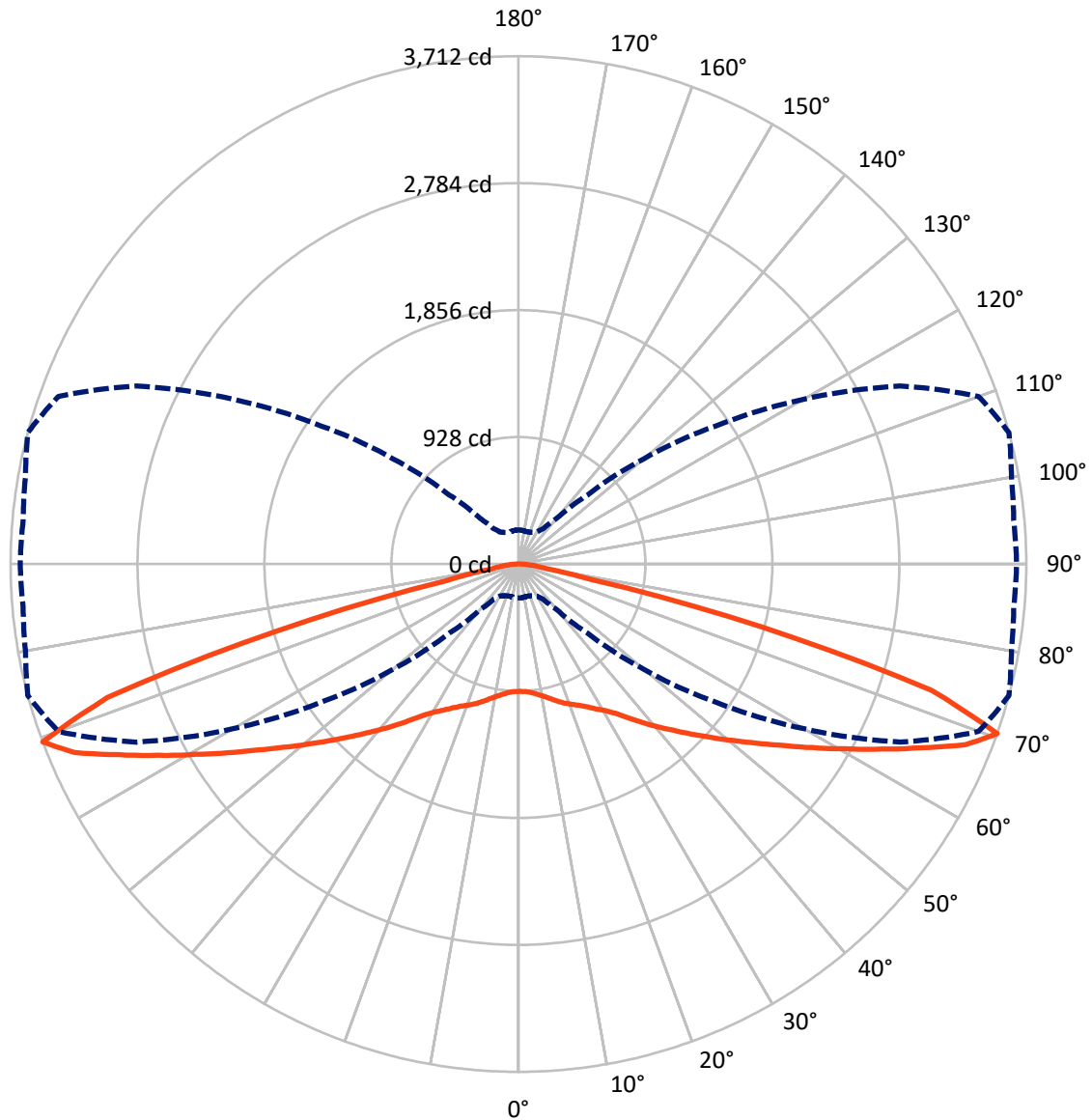
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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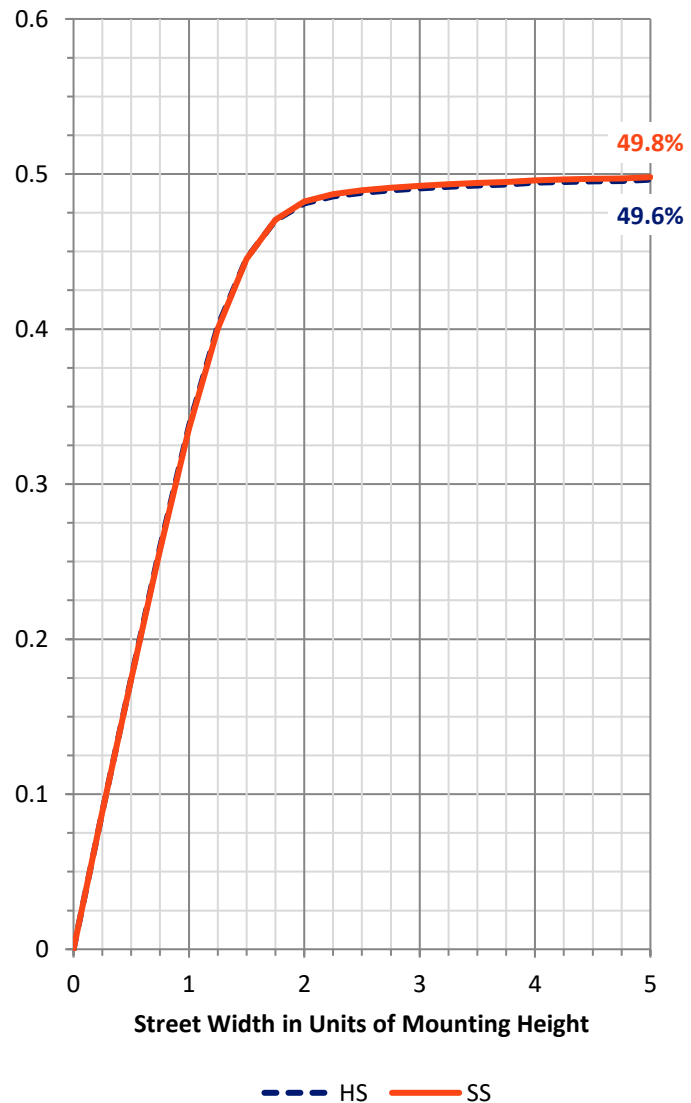
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4195.1	0.0	4195.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4195.1	0.0	4195.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	8390.2	0.0	8390.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	1.1
10°-20°	277.3	3.3
20°-30°	522.0	6.2
30°-40°	924.4	11.0
40°-50°	1545.8	18.4
50°-60°	2154.1	25.7
60°-70°	1997.6	23.8
70°-80°	796.1	9.5
80°-90°	83.7	1.0
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°	8390.2	100.0
0°-180°	8390.2	100.0



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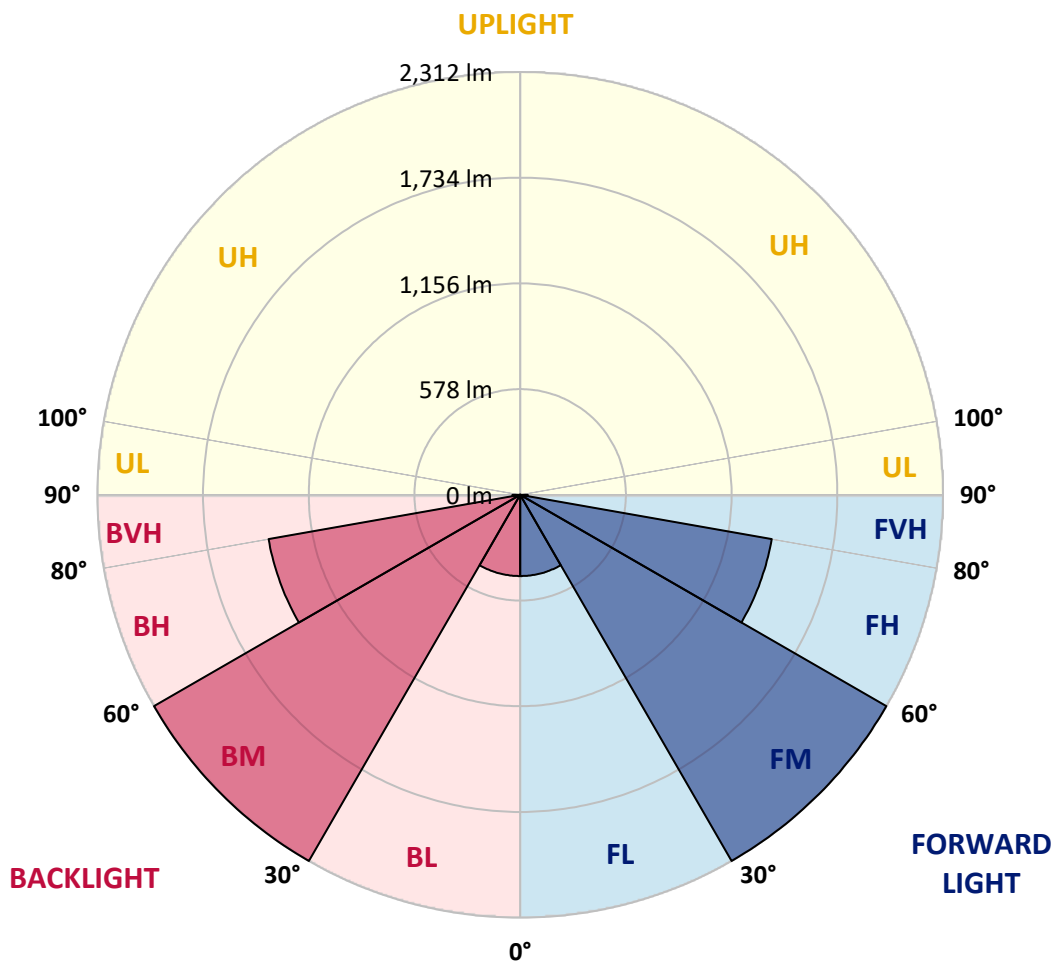
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	444.3	5.3			
FM	(30°-60°)	2312.1	27.6			
FH	(60°-80°)	1396.8	16.6			G1/1800
FVH	(80°-90°)	41.8	0.5			G1/100
BL	(0°-30°)	444.3	5.3	B1/500		
BM	(30°-60°)	2312.1	27.6	B2/2500		
BH	(60°-80°)	1396.8	16.6	B3/2500		G3/2500
BVH	(80°-90°)	41.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	930.7	930.7	930.7	930.7	930.7	930.7	930.7	930.7	930.7	930.7	930.7
2.5°	929.0	928.3	929.0	928.7	929.5	929.5	930.3	931.9	931.9	933.0	932.6
5°	919.9	919.5	920.8	922.0	923.1	925.6	927.9	931.5	934.3	936.2	938.3
7.5°	902.1	902.1	903.7	906.4	909.3	914.4	919.9	927.1	934.3	940.2	945.3
10°	887.4	888.2	890.3	895.0	899.8	907.7	915.2	925.6	935.4	945.3	953.3
12.5°	878.7	879.9	883.5	890.6	898.6	909.3	920.8	933.9	944.9	956.9	964.7
15°	881.5	882.3	887.4	896.2	906.4	919.9	935.4	950.9	964.0	976.7	987.4
17.5°	896.9	898.2	904.1	914.0	924.7	940.6	957.3	974.7	990.9	1005.3	1018.3
20°	924.7	925.9	933.4	944.2	956.9	973.1	989.8	1008.0	1026.2	1041.3	1056.0
22.5°	964.0	966.0	973.1	983.8	998.1	1015.5	1035.3	1054.8	1072.3	1086.1	1099.2
25°	1015.5	1019.9	1026.6	1038.5	1053.6	1069.5	1090.9	1110.7	1127.4	1140.5	1150.0
27.5°	1088.5	1094.5	1099.6	1111.1	1125.8	1140.8	1162.3	1179.7	1195.5	1208.2	1215.4
30°	1185.3	1191.2	1196.3	1207.5	1220.9	1235.2	1255.5	1270.9	1280.8	1290.8	1290.4
32.5°	1302.6	1309.0	1310.9	1322.9	1336.7	1352.2	1370.4	1379.1	1387.1	1388.2	1381.2
35°	1433.9	1437.0	1445.0	1460.9	1476.7	1489.4	1506.8	1511.2	1511.2	1505.3	1489.4
37.5°	1577.8	1579.8	1590.9	1608.8	1625.1	1638.1	1650.0	1658.7	1654.3	1641.6	1615.1
40°	1735.6	1739.2	1755.1	1770.9	1789.1	1801.5	1814.2	1815.7	1811.3	1792.7	1756.6
42.5°	1886.3	1889.5	1905.3	1930.3	1954.1	1971.2	1983.1	1985.4	1971.6	1954.6	1909.7
45°	2016.0	2024.3	2045.0	2074.2	2108.8	2133.0	2149.2	2156.0	2143.7	2121.5	2069.5
47.5°	2118.7	2127.0	2156.4	2191.3	2234.1	2273.3	2300.3	2314.6	2311.5	2294.8	2238.0
50°	2194.0	2202.0	2233.7	2276.5	2326.5	2375.3	2421.2	2455.4	2467.3	2459.7	2407.8
52.5°	2202.7	2215.8	2253.2	2310.6	2375.7	2442.3	2507.7	2565.6	2604.8	2610.8	2572.3
55°	2081.0	2094.1	2145.6	2231.0	2327.7	2436.4	2541.0	2638.6	2715.9	2755.5	2735.3
57.5°	1793.9	1817.4	1871.7	1971.6	2113.9	2276.5	2443.4	2616.7	2774.1	2879.3	2899.5
60°	1374.8	1402.6	1457.3	1563.6	1722.1	1916.1	2138.9	2395.1	2673.1	2909.4	3050.5
62.5°	881.9	908.1	965.6	1057.9	1187.2	1397.4	1636.5	1940.6	2314.2	2687.3	3023.6
65°	453.3	467.5	497.7	553.5	654.3	811.3	1025.8	1329.2	1756.3	2216.6	2702.8
67.5°	287.1	289.9	296.7	304.5	330.3	384.6	484.6	673.7	1025.1	1505.3	2074.2
70°	248.3	248.3	245.1	243.9	247.0	254.6	270.1	314.0	432.6	714.5	1196.3
72.5°	227.2	224.8	219.3	214.9	214.1	214.1	217.3	224.0	243.1	291.0	468.3
75°	209.4	202.6	195.1	190.0	187.9	186.0	185.6	186.8	190.8	198.2	223.6
77.5°	187.6	178.8	170.1	165.0	162.5	159.8	157.4	154.7	152.6	155.1	166.1
80°	161.4	151.5	144.7	141.6	139.2	135.2	130.0	125.3	120.9	120.2	126.8
82.5°	130.0	118.6	119.0	120.2	115.8	110.3	104.6	99.5	92.0	88.1	92.0
85°	105.1	99.1	96.4	103.9	97.6	89.2	80.5	71.4	59.4	49.9	54.3
87.5°	40.8	40.8	61.1	94.0	84.5	68.9	59.1	50.3	31.3	24.1	24.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	930.7	930.7	930.7	930.7	930.7	930.7	930.7	930.7
2.5°	932.2	933.0	932.6	932.2	932.2	931.9	932.2	932.2
5°	939.4	941.4	941.4	942.1	942.1	942.5	943.0	942.5
7.5°	950.1	953.7	956.0	958.8	959.2	959.6	960.4	959.6
10°	960.9	967.9	973.1	978.2	980.6	981.4	982.2	982.2
12.5°	974.3	984.2	993.3	1002.5	1006.8	1009.1	1009.1	1010.8
15°	996.5	1006.4	1017.1	1029.4	1037.0	1041.0	1042.1	1042.1
17.5°	1027.9	1036.6	1045.7	1057.5	1067.0	1072.3	1073.4	1073.1
20°	1064.3	1072.7	1077.8	1085.4	1093.6	1099.6	1101.2	1101.2
22.5°	1105.9	1110.7	1111.5	1113.9	1120.6	1128.5	1132.1	1132.9
25°	1151.9	1153.2	1150.0	1150.0	1154.3	1161.9	1165.4	1165.9
27.5°	1211.4	1205.4	1197.6	1194.8	1197.6	1206.3	1210.7	1212.2
30°	1285.5	1271.3	1253.0	1243.2	1241.6	1253.0	1261.0	1262.2
32.5°	1370.4	1349.8	1325.6	1305.4	1300.3	1307.4	1316.9	1316.5
35°	1471.1	1446.6	1417.2	1391.4	1379.6	1386.7	1400.2	1401.7
37.5°	1587.3	1555.2	1521.5	1489.0	1470.4	1472.3	1486.7	1491.4
40°	1717.0	1675.4	1632.9	1589.4	1562.8	1557.6	1575.0	1577.8
42.5°	1855.8	1802.2	1748.7	1694.8	1660.7	1652.8	1673.0	1671.8
45°	2003.7	1935.5	1872.8	1813.4	1772.9	1761.0	1777.7	1777.7
47.5°	2162.7	2078.6	2004.1	1936.7	1892.7	1875.6	1891.4	1892.7
50°	2331.2	2242.0	2154.4	2079.5	2026.7	2004.9	2025.5	2028.7
52.5°	2499.0	2412.1	2323.7	2238.0	2174.2	2147.7	2171.4	2181.7
55°	2669.1	2583.9	2499.4	2415.7	2340.0	2308.6	2334.1	2347.1
57.5°	2848.7	2769.8	2689.3	2604.8	2531.9	2483.1	2510.1	2527.5
60°	3059.2	2991.8	2908.2	2815.1	2741.3	2691.7	2707.1	2722.6
62.5°	3225.9	3252.0	3181.1	3073.1	2978.4	2914.9	2930.0	2946.3
65°	3145.4	3413.8	3476.8	3367.8	3236.5	3137.8	3131.5	3139.7
67.5°	2629.1	3150.5	3530.8	3634.6	3524.8	3387.6	3362.2	3374.5
70°	1758.7	2408.1	3079.1	3578.8	3711.6	3658.5	3633.5	3641.0
72.5°	844.7	1402.6	2089.0	2753.2	3157.6	3343.2	3402.6	3431.6
75°	308.9	556.7	1006.8	1517.1	1831.6	2120.3	2308.6	2385.5
77.5°	186.4	224.8	321.6	484.2	548.4	613.9	588.5	601.2
80°	138.0	155.8	176.5	198.2	205.4	205.4	197.4	191.1
82.5°	96.8	108.2	118.2	130.0	133.2	127.3	104.6	83.3
85°	62.3	67.4	71.8	79.3	77.3	73.8	49.6	44.0
87.5°	28.5	32.5	34.1	37.6	36.1	34.5	24.6	20.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)