

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: P191019

Luminaire Tested: **GLEON-AF-01-LED-E1-RW-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191019
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-01-LED-E1-RW-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7149.4 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

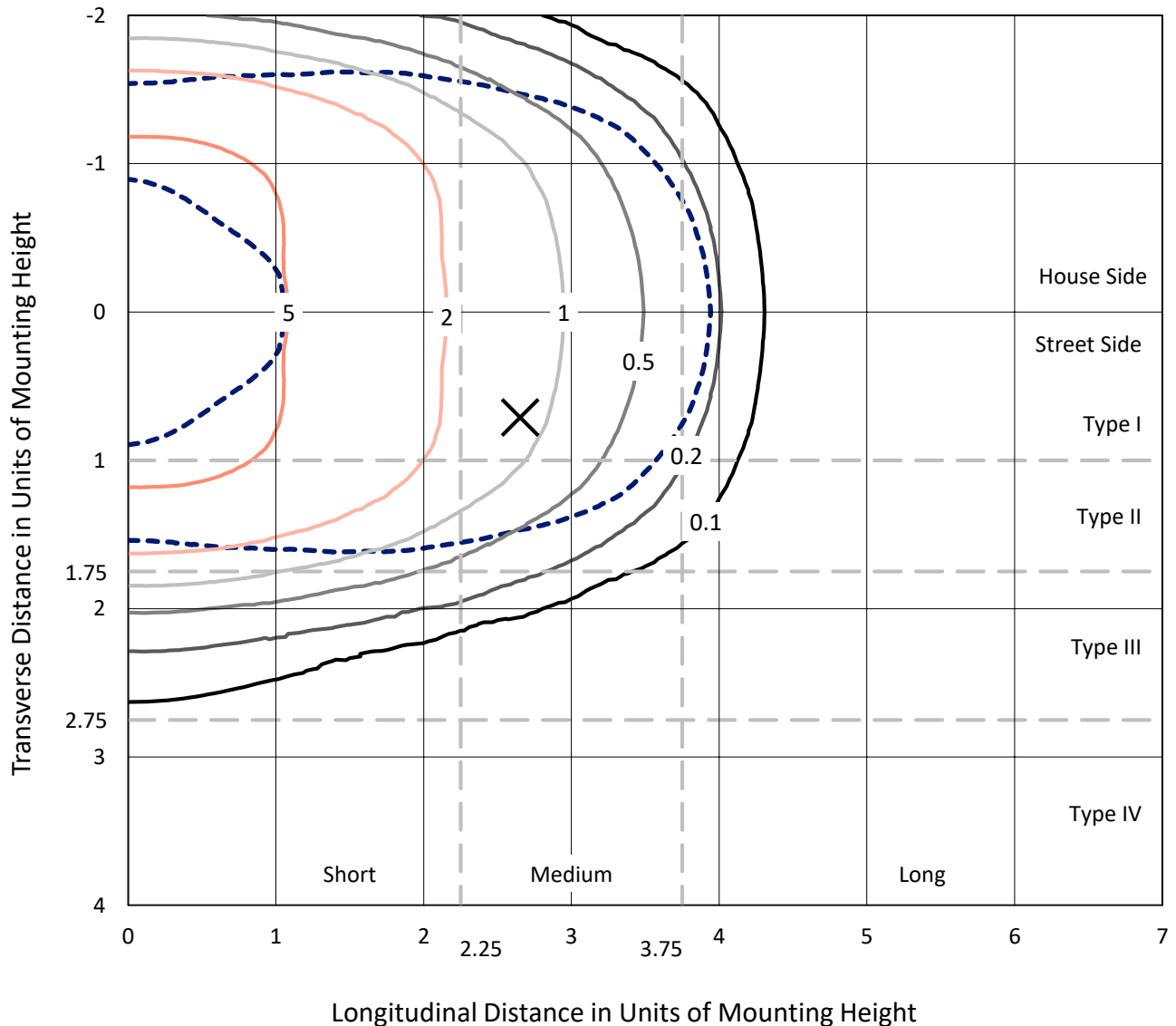
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

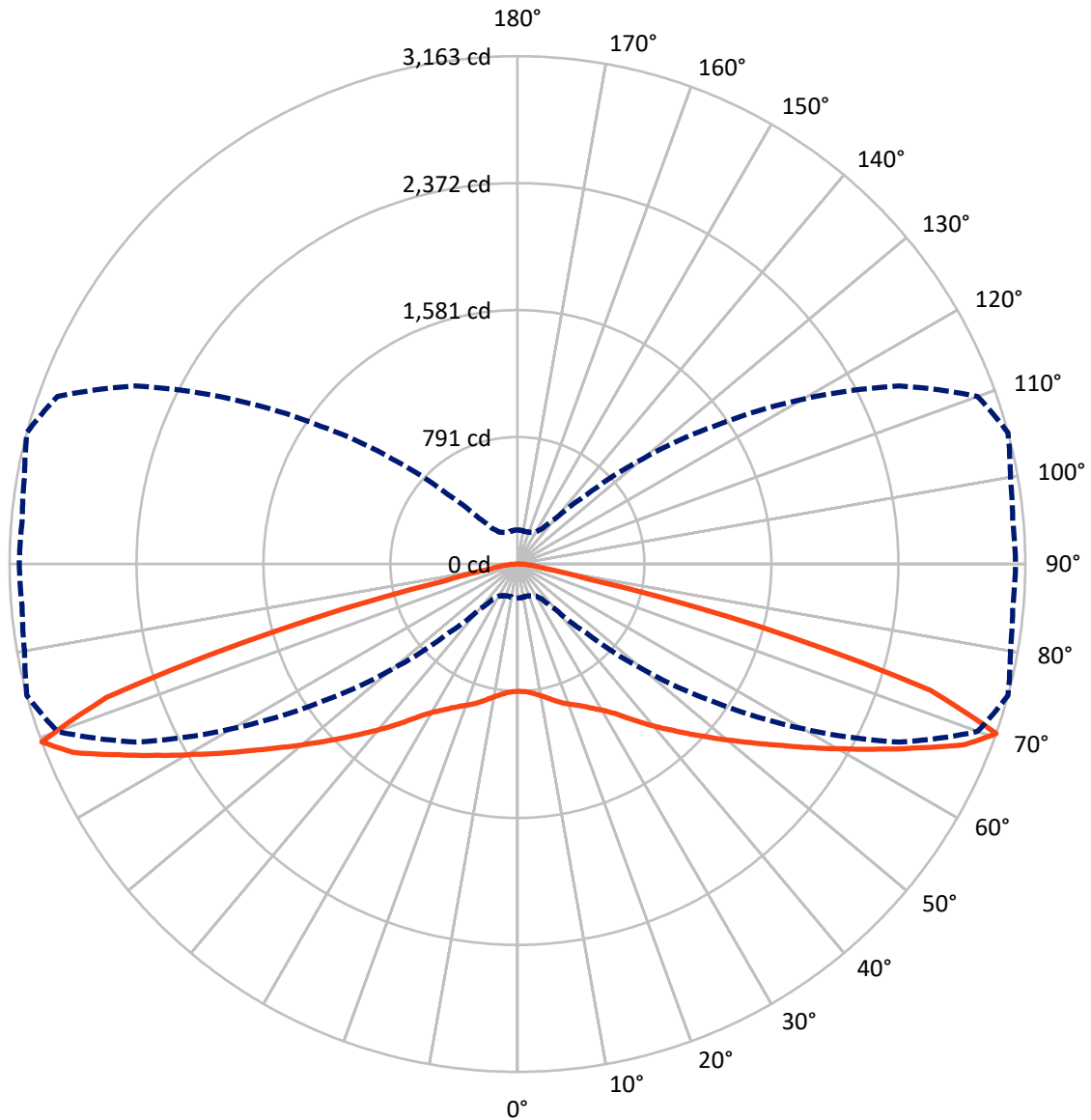
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 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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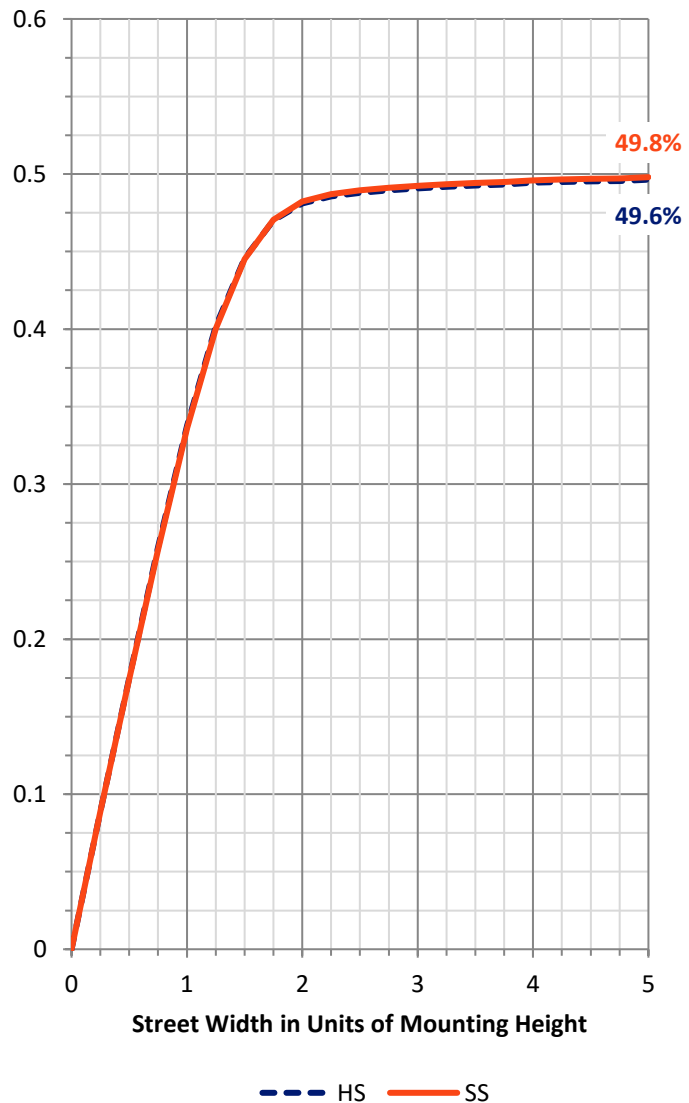
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3574.7	0.0	3574.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3574.7	0.0	3574.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	7149.4	0.0	7149.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	1.1
10°-20°	236.3	3.3
20°-30°	444.8	6.2
30°-40°	787.7	11.0
40°-50°	1317.2	18.4
50°-60°	1835.5	25.7
60°-70°	1702.2	23.8
70°-80°	678.4	9.5
80°-90°	71.3	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°	7149.4	100.0
0°-180°	7149.4	100.0



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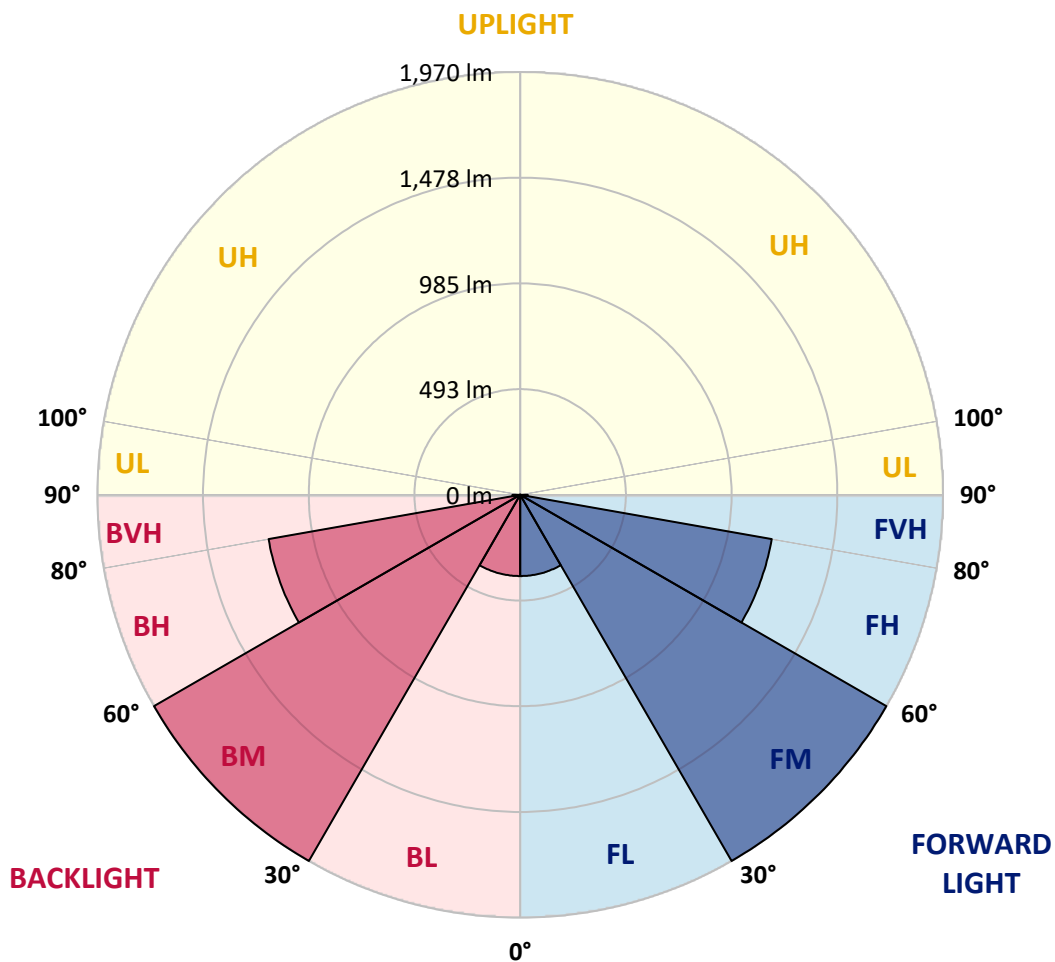
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	378.6	5.3			
FM (30°-60°)	1970.2	27.6			
FH (60°-80°)	1190.3	16.6			G1/1800
FVH (80°-90°)	35.7	0.5			G1/100
BL (0°-30°)	378.6	5.3	B1/500		
BM (30°-60°)	1970.2	27.6	B2/2500		
BH (60°-80°)	1190.3	16.6	B3/2500		G3/2500
BVH (80°-90°)	35.7	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°	793.0	793.0	793.0	793.0	793.0	793.0	793.0	793.0	793.0	793.0	793.0
2.5°	791.7	791.0	791.7	791.4	792.1	792.1	792.7	794.0	794.0	795.0	794.7
5°	783.9	783.6	784.6	785.6	786.6	788.6	790.6	793.7	796.1	797.8	799.4
7.5°	768.7	768.7	770.1	772.4	774.8	779.2	783.9	790.0	796.1	801.2	805.6
10°	756.2	756.9	758.6	762.6	766.7	773.5	779.9	788.6	797.1	805.6	812.3
12.5°	748.8	749.8	752.8	758.9	765.7	774.8	784.6	795.8	805.2	815.3	822.0
15°	751.2	751.8	756.2	763.6	772.4	783.9	797.1	810.3	821.4	832.3	841.4
17.5°	764.3	765.4	770.4	778.9	788.0	801.5	815.7	830.5	844.4	856.5	867.7
20°	788.0	789.0	795.4	804.6	815.3	829.2	843.4	859.0	874.4	887.3	899.8
22.5°	821.4	823.1	829.2	838.3	850.5	865.3	882.2	898.8	913.7	925.5	936.6
25°	865.3	869.1	874.8	885.0	897.7	911.3	929.6	946.4	960.7	971.8	979.9
27.5°	927.5	932.6	937.0	946.7	959.3	972.1	990.3	1005.3	1018.8	1029.6	1035.6
30°	1010.0	1015.1	1019.5	1028.9	1040.3	1052.5	1069.8	1083.0	1091.4	1099.9	1099.5
32.5°	1110.0	1115.4	1117.1	1127.2	1139.1	1152.3	1167.8	1175.2	1181.9	1182.9	1176.9
35°	1221.8	1224.6	1231.3	1244.8	1258.3	1269.2	1284.0	1287.7	1287.7	1282.7	1269.2
37.5°	1344.5	1346.2	1355.6	1370.9	1384.7	1395.8	1405.9	1413.4	1409.7	1398.9	1376.3
40°	1479.0	1481.9	1495.6	1509.1	1524.6	1535.0	1545.9	1547.2	1543.5	1527.6	1496.9
42.5°	1607.4	1610.0	1623.6	1644.9	1665.2	1679.7	1689.8	1691.9	1680.0	1665.5	1627.3
45°	1717.8	1724.9	1742.5	1767.6	1796.9	1817.5	1831.4	1837.1	1826.7	1807.8	1763.5
47.5°	1805.4	1812.5	1837.4	1867.2	1903.7	1937.2	1960.1	1972.2	1969.6	1955.4	1907.1
50°	1869.5	1876.3	1903.3	1939.8	1982.4	2024.0	2063.2	2092.2	2102.4	2095.9	2051.7
52.5°	1877.0	1888.2	1919.9	1968.9	2024.3	2081.1	2136.8	2186.1	2219.6	2224.7	2191.9
55°	1773.3	1784.4	1828.3	1900.9	1983.4	2076.0	2165.2	2248.3	2314.2	2348.0	2330.8
57.5°	1528.6	1548.5	1594.9	1680.0	1801.3	1939.8	2082.1	2229.7	2363.9	2453.4	2470.6
60°	1171.5	1195.1	1241.8	1332.3	1467.4	1632.7	1822.6	2040.9	2277.7	2479.1	2599.4
62.5°	751.5	773.8	822.8	901.5	1011.7	1190.7	1394.5	1653.6	1971.9	2289.9	2576.4
65°	386.2	398.3	424.0	471.7	557.5	691.3	874.1	1132.6	1496.6	1888.8	2303.1
67.5°	244.6	247.0	252.8	259.5	281.5	327.8	412.9	574.1	873.5	1282.7	1767.6
70°	211.5	211.5	208.8	207.8	210.5	217.0	230.1	267.6	368.7	608.9	1019.5
72.5°	193.6	191.6	186.9	183.1	182.5	182.5	185.2	190.9	207.1	248.0	399.1
75°	178.4	172.7	166.2	161.8	160.2	158.5	158.1	159.2	162.5	169.0	190.6
77.5°	159.8	152.4	145.0	140.6	138.5	136.2	134.1	131.8	130.1	132.2	141.6
80°	137.5	129.1	123.4	120.6	118.6	115.2	110.8	106.8	103.0	102.4	108.1
82.5°	110.8	101.1	101.4	102.4	98.7	93.9	89.2	84.8	78.4	75.0	78.4
85°	89.5	84.5	82.1	88.5	83.2	76.0	68.6	60.9	50.6	42.6	46.3
87.5°	34.8	34.8	52.1	80.1	72.0	58.8	50.3	42.9	26.7	20.6	21.0
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°	793.0	793.0	793.0	793.0	793.0	793.0	793.0	793.0
2.5°	794.4	795.0	794.7	794.4	794.4	794.0	794.4	794.4
5°	800.5	802.2	802.2	802.8	802.8	803.2	803.5	803.2
7.5°	809.6	812.6	814.7	817.0	817.3	817.7	818.4	817.7
10°	818.7	824.8	829.2	833.6	835.6	836.3	837.0	837.0
12.5°	830.2	838.6	846.4	854.2	857.9	859.9	859.9	861.3
15°	849.2	857.5	866.7	877.2	883.6	887.0	888.0	888.0
17.5°	875.9	883.2	891.0	901.1	909.3	913.7	914.7	914.3
20°	906.9	914.0	918.4	924.8	931.9	937.0	938.4	938.4
22.5°	942.3	946.4	947.2	949.1	954.9	961.7	964.6	965.4
25°	981.6	982.5	979.9	979.9	983.6	990.0	993.1	993.4
27.5°	1032.3	1027.1	1020.4	1018.0	1020.4	1027.9	1031.5	1033.0
30°	1095.5	1083.3	1067.8	1059.3	1057.9	1067.8	1074.5	1075.5
32.5°	1167.8	1150.2	1129.5	1112.4	1108.0	1114.0	1122.2	1121.8
35°	1253.6	1232.7	1207.6	1185.7	1175.6	1181.6	1193.1	1194.5
37.5°	1352.5	1325.2	1296.5	1268.8	1252.9	1254.5	1266.7	1270.8
40°	1463.1	1427.6	1391.4	1354.3	1331.7	1327.3	1342.1	1344.5
42.5°	1581.4	1535.8	1490.1	1444.2	1415.0	1408.3	1425.6	1424.6
45°	1707.4	1649.3	1595.9	1545.2	1510.7	1500.6	1514.8	1514.8
47.5°	1842.8	1771.2	1707.7	1650.2	1612.8	1598.3	1611.8	1612.8
50°	1986.5	1910.5	1835.8	1772.0	1726.9	1708.4	1725.9	1728.7
52.5°	2129.4	2055.4	1980.0	1907.1	1852.7	1830.1	1850.3	1859.1
55°	2274.3	2201.7	2129.8	2058.5	1993.9	1967.2	1988.8	2000.0
57.5°	2427.5	2360.2	2291.6	2219.6	2157.4	2115.9	2138.9	2153.7
60°	2606.9	2549.4	2478.1	2398.7	2335.8	2293.7	2306.8	2320.0
62.5°	2748.8	2771.1	2710.6	2618.7	2537.9	2483.8	2496.7	2510.5
65°	2680.1	2909.0	2962.7	2869.7	2757.9	2673.8	2668.4	2675.4
67.5°	2240.3	2684.5	3008.6	3097.1	3003.5	2886.7	2865.0	2875.5
70°	1498.5	2052.0	2623.8	3049.5	3162.7	3117.4	3096.2	3102.5
72.5°	719.7	1195.1	1780.0	2346.0	2690.7	2848.8	2899.5	2924.1
75°	263.2	474.4	857.9	1292.8	1560.7	1806.7	1967.2	2032.8
77.5°	158.8	191.6	274.0	412.6	467.3	523.0	501.5	512.3
80°	117.5	132.8	150.4	169.0	175.0	175.0	168.3	162.9
82.5°	82.4	92.3	100.7	110.8	113.5	108.4	89.2	71.0
85°	53.1	57.5	61.2	67.6	65.9	62.8	42.2	37.5
87.5°	24.3	27.7	29.1	32.1	30.8	29.4	21.0	17.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)