

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: P191671

Luminaire Tested: **GLEON-AF-03-LED-E1-5WQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-5WQ-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12611 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 96
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

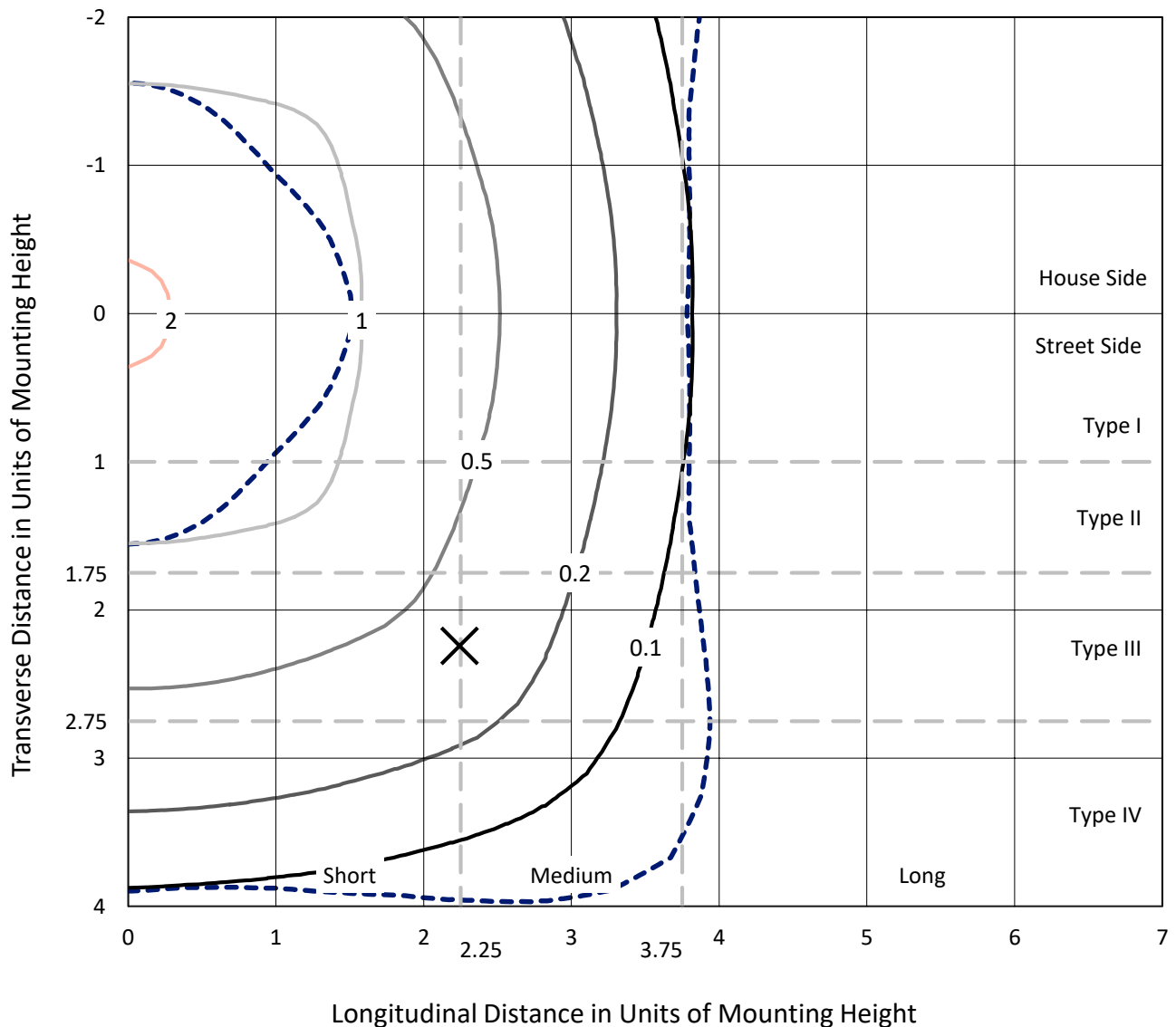


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

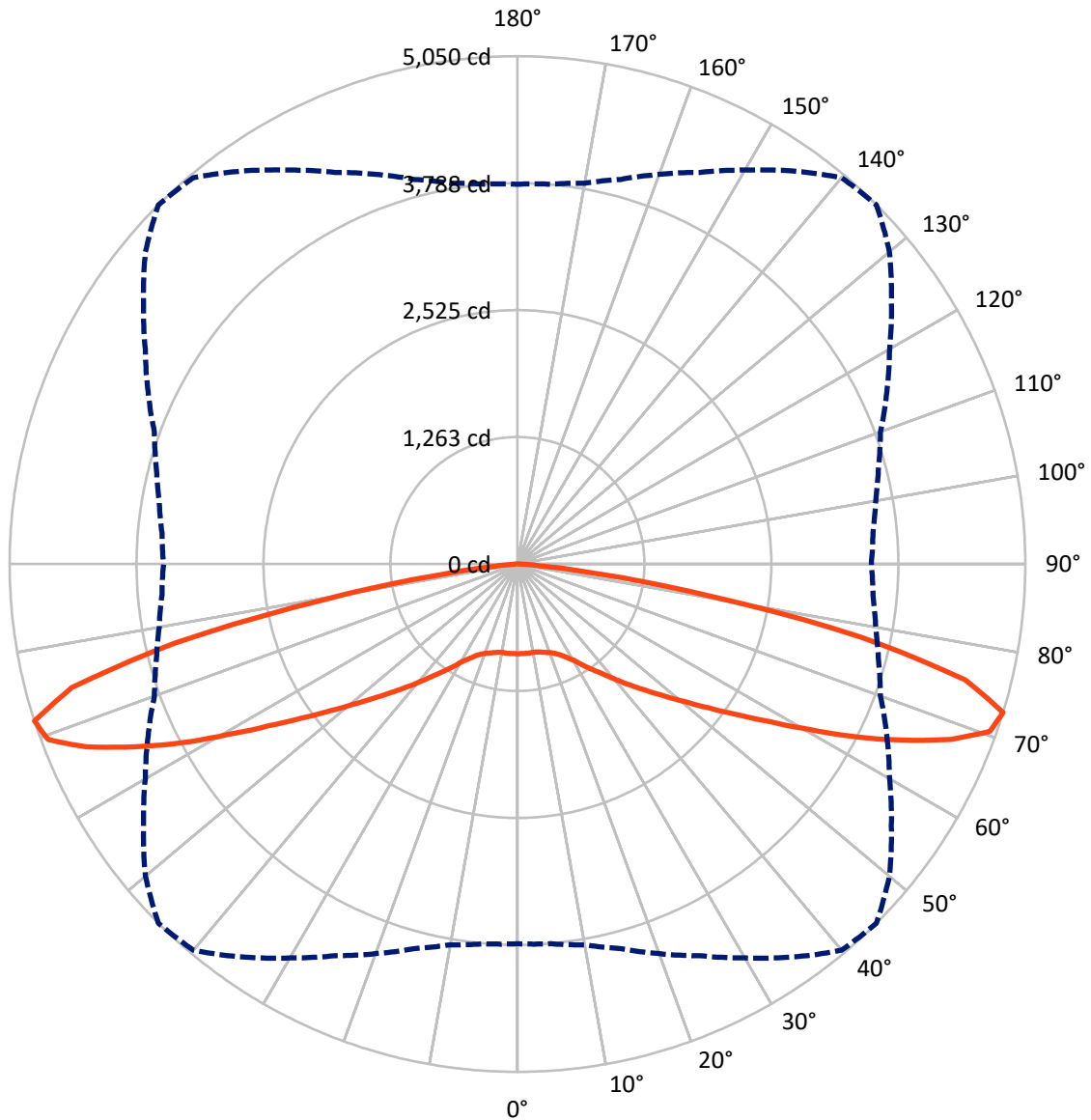


Based on 20 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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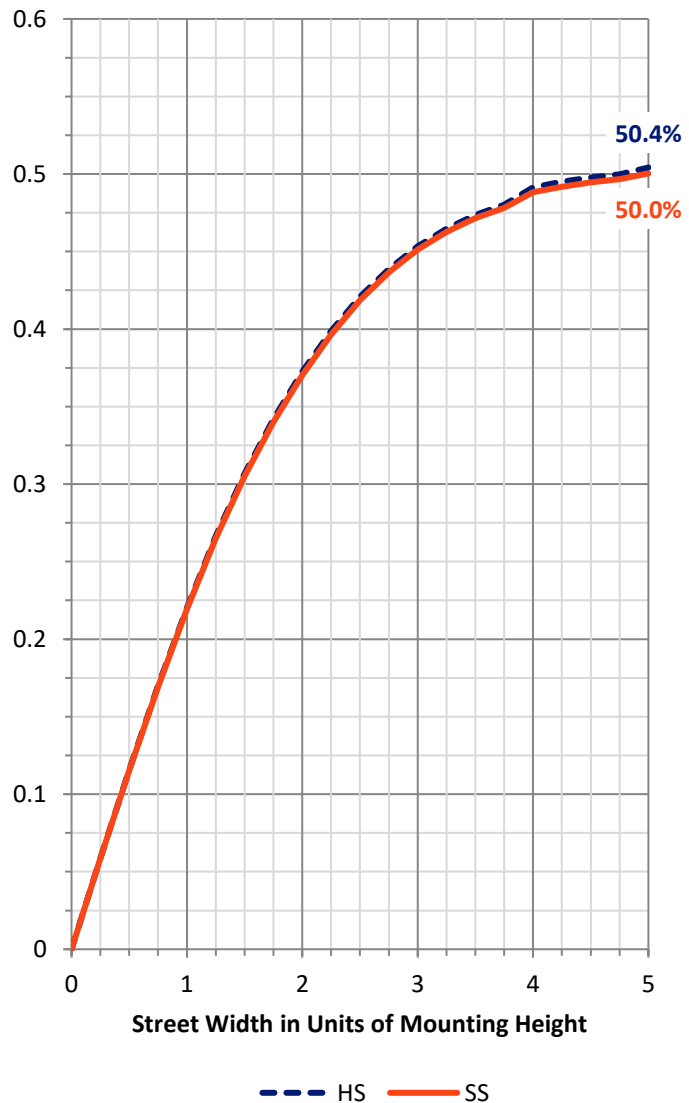
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6305.5	0.0	6305.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6305.5	0.0	6305.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12611.0	0.0	12611.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	0.7
10°-20°	259.0	2.1
20°-30°	473.3	3.8
30°-40°	816.0	6.5
40°-50°	1395.0	11.1
50°-60°	2261.1	17.9
60°-70°	3751.1	29.7
70°-80°	3303.8	26.2
80°-90°	266.4	2.1
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°	12611.0	100.0
0°-180°	12611.0	100.0



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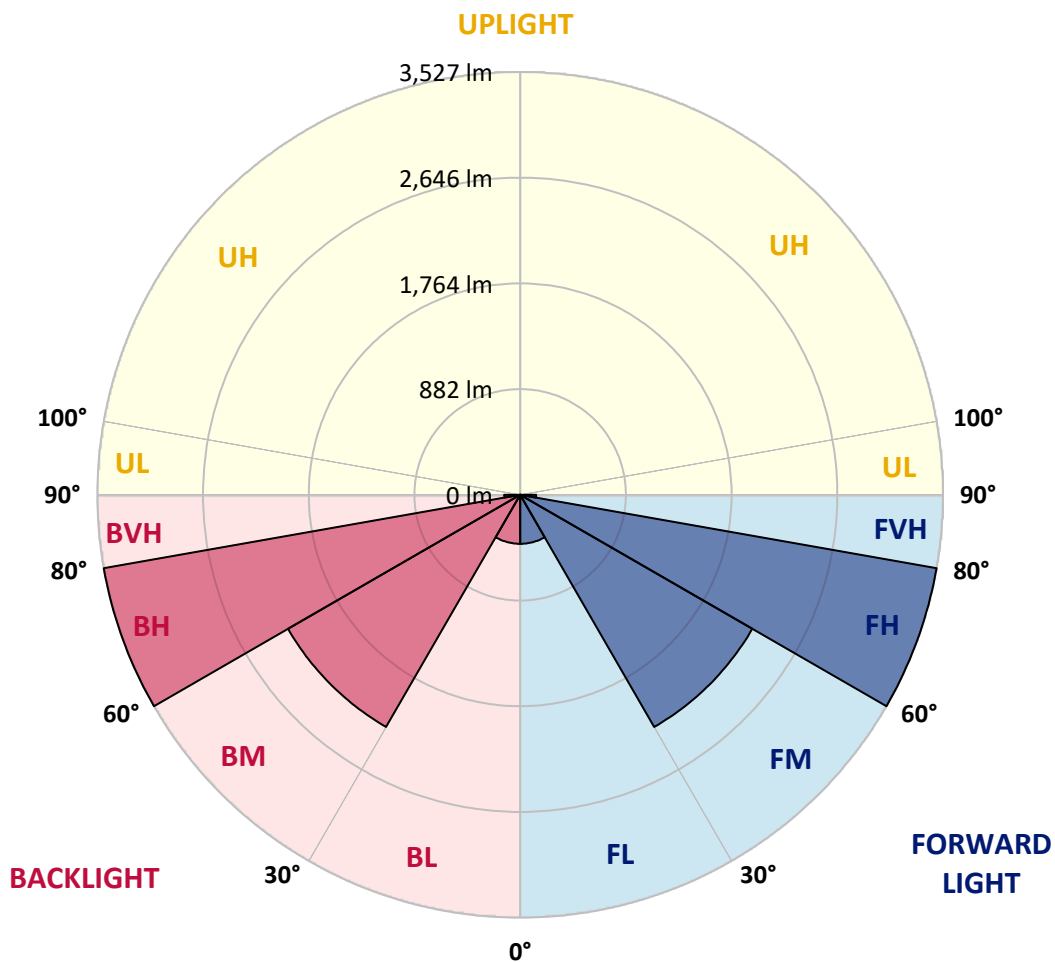
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.8	3.2			
FM (30°-60°)	2236.1	17.7			
FH (60°-80°)	3527.5	28.0			G2/5000
FVH (80°-90°)	133.2	1.1			G2/225
BL (0°-30°)	408.8	3.2	B1/500		
BM (30°-60°)	2236.1	17.7	B2/2500		
BH (60°-80°)	3527.5	28.0	B4/5000		G2/5000
BVH (80°-90°)	133.2	1.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	893.1	893.1	893.1	893.1	893.1	893.1	893.1	893.1	893.1	893.1	893.1
2.5°	893.1	893.6	894.2	893.6	893.6	893.1	892.5	893.1	892.5	891.3	891.9
5°	895.9	897.1	897.1	895.9	896.5	895.9	894.8	895.4	894.2	892.5	892.5
7.5°	899.4	900.0	900.0	898.8	899.4	898.3	897.1	896.5	895.4	893.1	891.3
10°	904.6	905.2	904.6	903.5	903.5	901.7	898.8	897.7	895.4	891.9	890.2
12.5°	910.4	911.0	910.4	909.2	908.7	905.8	903.5	901.7	900.0	897.1	894.2
15°	918.5	919.7	918.5	916.2	914.5	912.1	911.0	911.6	912.1	909.8	906.9
17.5°	933.5	934.1	932.4	927.2	924.9	922.6	922.6	923.7	925.4	924.3	921.4
20°	961.3	959.6	955.5	949.2	946.3	942.2	941.6	942.2	942.2	941.6	939.3
22.5°	996.0	994.9	989.6	981.6	977.5	975.2	971.7	968.8	968.2	966.5	964.2
25°	1037.7	1037.1	1030.7	1023.8	1020.9	1018.0	1015.1	1011.0	1007.6	1003.5	1001.2
27.5°	1090.9	1088.6	1079.3	1075.8	1071.8	1070.0	1066.0	1061.4	1058.5	1053.3	1050.4
30°	1149.3	1149.3	1141.8	1140.6	1140.6	1136.6	1131.9	1123.8	1118.6	1113.4	1111.7
32.5°	1207.7	1208.3	1200.8	1203.1	1204.8	1207.7	1208.9	1206.0	1202.5	1201.9	1198.5
35°	1292.2	1289.8	1282.3	1284.1	1283.5	1282.9	1282.9	1289.3	1290.4	1291.6	1284.6
37.5°	1396.8	1396.8	1389.3	1389.3	1385.9	1382.4	1377.8	1381.8	1388.2	1389.9	1385.3
40°	1516.6	1520.6	1511.4	1510.8	1511.9	1501.0	1495.8	1502.1	1506.2	1513.1	1507.9
42.5°	1657.7	1654.8	1645.6	1644.4	1638.0	1634.6	1629.9	1635.1	1641.5	1646.1	1647.9
45°	1793.1	1790.7	1780.3	1780.3	1774.0	1771.1	1773.4	1782.1	1785.0	1791.3	1797.7
47.5°	1926.7	1923.8	1916.8	1919.7	1920.3	1925.5	1933.0	1941.1	1949.2	1957.9	1960.8
50°	2063.2	2063.7	2056.2	2063.2	2071.8	2086.3	2106.5	2119.8	2136.6	2147.6	2151.1
52.5°	2187.5	2189.8	2197.9	2214.1	2231.5	2259.8	2294.5	2326.9	2354.7	2373.2	2372.0
55°	2336.7	2340.2	2359.9	2387.6	2416.0	2458.8	2510.3	2567.5	2613.8	2640.4	2623.6
57.5°	2527.6	2535.1	2557.1	2594.7	2636.9	2692.5	2763.0	2849.2	2920.9	2956.8	2929.6
60°	2789.6	2794.3	2820.9	2862.5	2913.4	2982.2	3076.5	3192.2	3293.4	3340.9	3309.6
62.5°	3134.9	3143.6	3165.0	3207.2	3259.3	3337.4	3452.5	3597.1	3723.2	3789.1	3718.6
65°	3547.3	3575.1	3593.0	3635.8	3684.4	3767.1	3887.4	4042.5	4177.8	4221.2	4139.6
67.5°	3955.7	3980.0	4011.2	4060.4	4109.6	4202.7	4314.3	4464.7	4613.3	4652.7	4526.0
70°	4134.4	4148.3	4196.9	4264.0	4358.3	4468.2	4597.1	4766.0	4950.0	4982.4	4821.6
72.5°	3776.4	3790.3	3844.6	3958.6	4122.9	4297.5	4522.5	4770.7	5013.6	5050.0	4828.5
75°	2856.2	2833.6	2914.0	3065.0	3286.5	3530.0	3844.6	4200.4	4551.5	4597.1	4332.8
77.5°	1476.1	1473.2	1533.9	1721.3	1985.7	2262.7	2609.2	3011.2	3354.7	3493.6	3278.4
80°	415.9	420.5	449.4	542.5	697.0	897.1	1167.8	1544.3	1825.4	1968.9	1848.6
82.5°	163.1	175.8	186.8	204.2	224.4	253.9	338.9	504.4	676.7	808.6	662.3
85°	58.4	62.5	88.5	104.7	106.4	112.2	127.8	149.2	179.9	214.6	176.4
87.5°	22.0	24.3	28.3	46.9	46.3	42.2	51.5	53.8	40.5	37.0	45.7
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°	893.1	893.1	893.1	893.1	893.1	893.1	893.1	893.1
2.5°	890.7	891.3	891.3	891.9	892.5	892.5	893.6	893.6
5°	891.3	891.3	890.2	890.7	890.2	890.2	890.7	890.7
7.5°	890.2	889.6	888.4	887.8	886.7	886.7	886.7	886.7
10°	888.4	887.8	886.7	886.1	885.5	885.5	885.5	885.5
12.5°	893.1	891.3	890.2	889.6	889.6	889.6	889.6	889.6
15°	905.2	901.2	898.3	898.3	898.8	900.0	900.0	901.2
17.5°	920.2	915.6	912.7	910.4	911.6	913.3	914.5	915.6
20°	938.2	935.9	931.8	929.5	929.5	931.8	933.0	933.5
22.5°	963.0	961.3	959.6	956.7	956.7	957.8	960.1	960.1
25°	1000.1	998.9	997.7	995.4	994.9	994.9	996.0	997.2
27.5°	1046.3	1046.9	1045.8	1045.2	1043.4	1042.9	1044.6	1044.0
30°	1108.2	1111.1	1114.0	1111.7	1108.8	1107.1	1105.3	1103.0
32.5°	1192.1	1188.6	1186.3	1182.3	1177.1	1172.4	1169.0	1164.9
35°	1271.3	1265.5	1263.2	1266.7	1266.1	1263.2	1259.2	1255.7
37.5°	1368.5	1367.3	1368.5	1374.9	1373.7	1376.6	1368.5	1367.9
40°	1491.1	1492.3	1500.4	1507.9	1511.9	1516.0	1511.4	1506.7
42.5°	1633.4	1632.8	1635.7	1646.1	1653.1	1657.7	1647.9	1646.7
45°	1783.8	1779.7	1782.1	1790.7	1797.7	1802.9	1791.9	1791.9
47.5°	1949.2	1942.3	1934.8	1944.6	1948.6	1952.1	1943.4	1940.5
50°	2133.7	2119.3	2103.1	2107.1	2107.1	2106.0	2095.0	2094.4
52.5°	2345.4	2318.8	2289.3	2278.3	2272.0	2265.0	2245.9	2236.7
55°	2588.9	2549.0	2502.8	2474.4	2459.4	2440.3	2408.5	2399.8
57.5°	2873.5	2811.0	2731.2	2696.5	2663.0	2631.7	2596.5	2586.6
60°	3210.7	3118.8	3012.9	2948.7	2912.3	2882.2	2845.7	2844.0
62.5°	3586.7	3441.5	3321.8	3263.9	3237.3	3210.7	3176.0	3180.6
65°	3969.0	3817.5	3705.3	3658.4	3633.5	3611.6	3576.8	3582.1
67.5°	4346.1	4206.7	4083.5	4035.5	4007.8	3980.0	3948.8	3954.0
70°	4616.8	4443.9	4305.1	4198.6	4132.1	4056.9	4008.3	3996.2
72.5°	4539.3	4272.7	4052.3	3841.2	3717.4	3616.8	3548.5	3519.0
75°	3928.5	3564.1	3280.7	3021.6	2875.8	2757.2	2671.1	2617.3
77.5°	2917.5	2508.0	2173.1	1874.6	1638.6	1480.1	1368.5	1296.2
80°	1597.0	1214.6	887.8	624.1	458.7	381.2	336.6	315.2
82.5°	497.4	321.0	236.6	204.2	189.7	181.6	168.3	146.9
85°	158.5	138.8	129.0	123.2	117.4	102.4	70.6	64.2
87.5°	61.3	63.0	62.5	59.0	60.2	43.4	34.7	30.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)