

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: P193411

Luminaire Tested: **GLEON-AF-03-LED-E1-5WQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193411
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-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 10291 lumens
Efficiency: N/A
Efficacy: 107.2 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

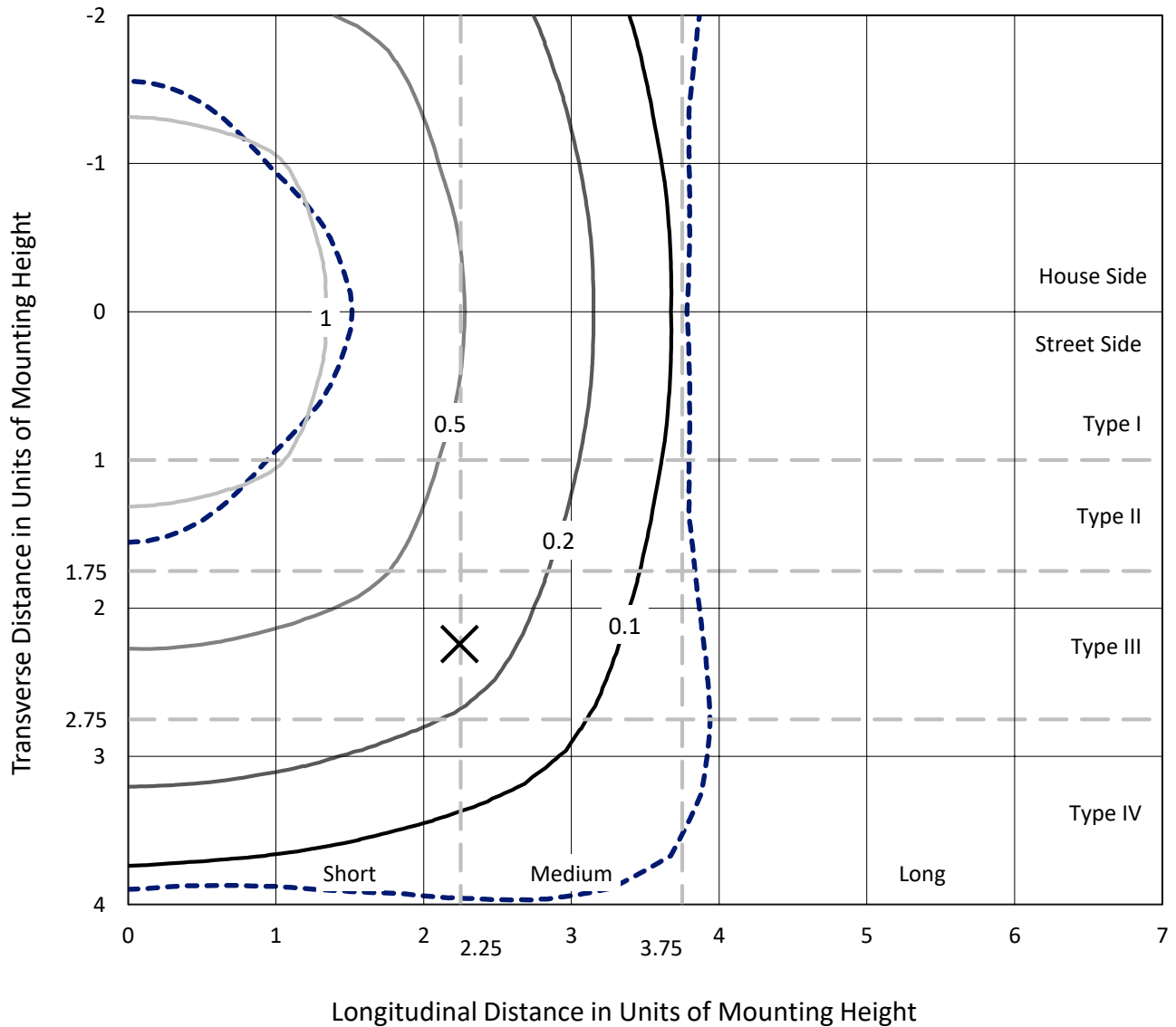


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

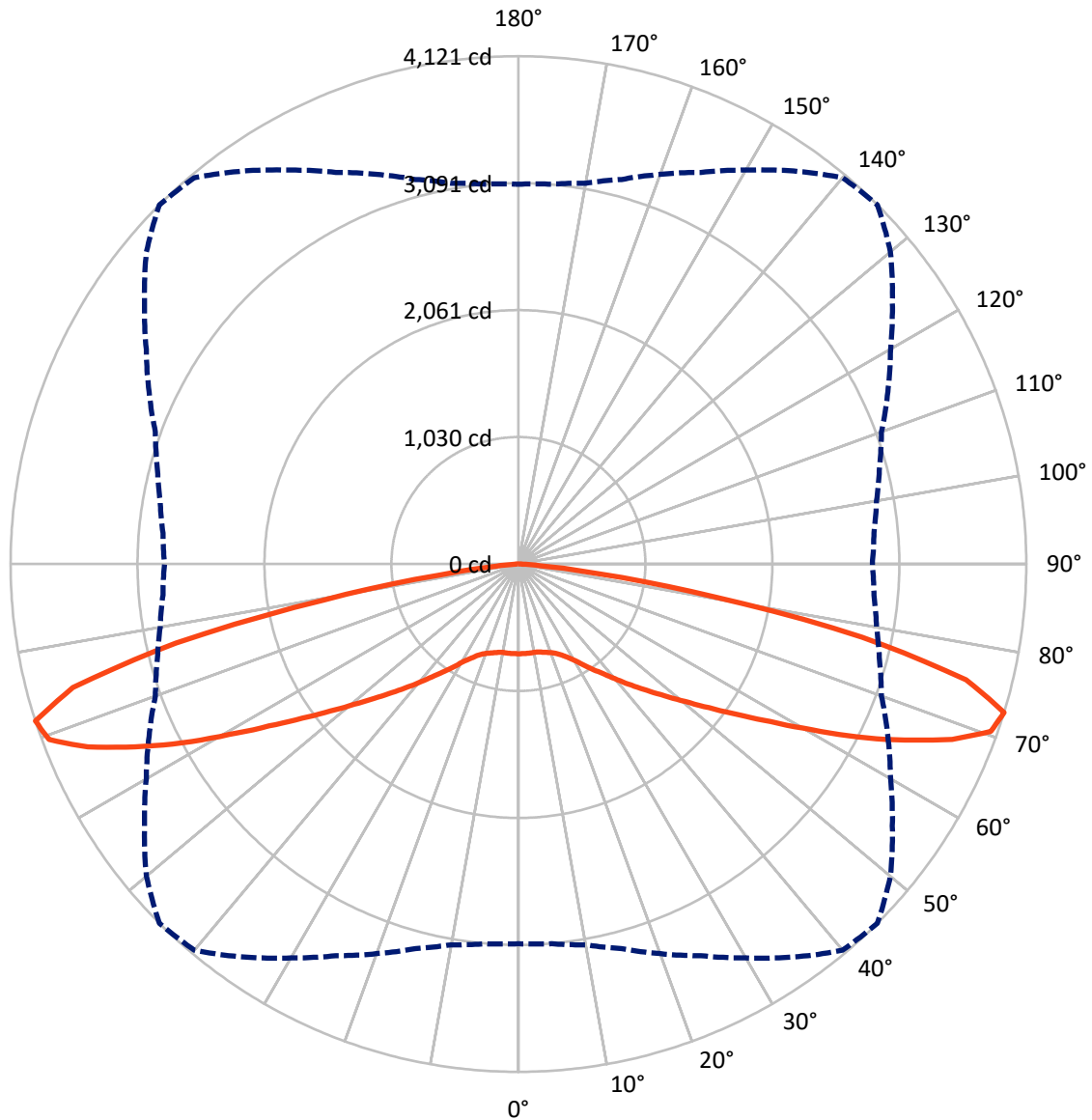


Based on 20 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Semi-Cutoff

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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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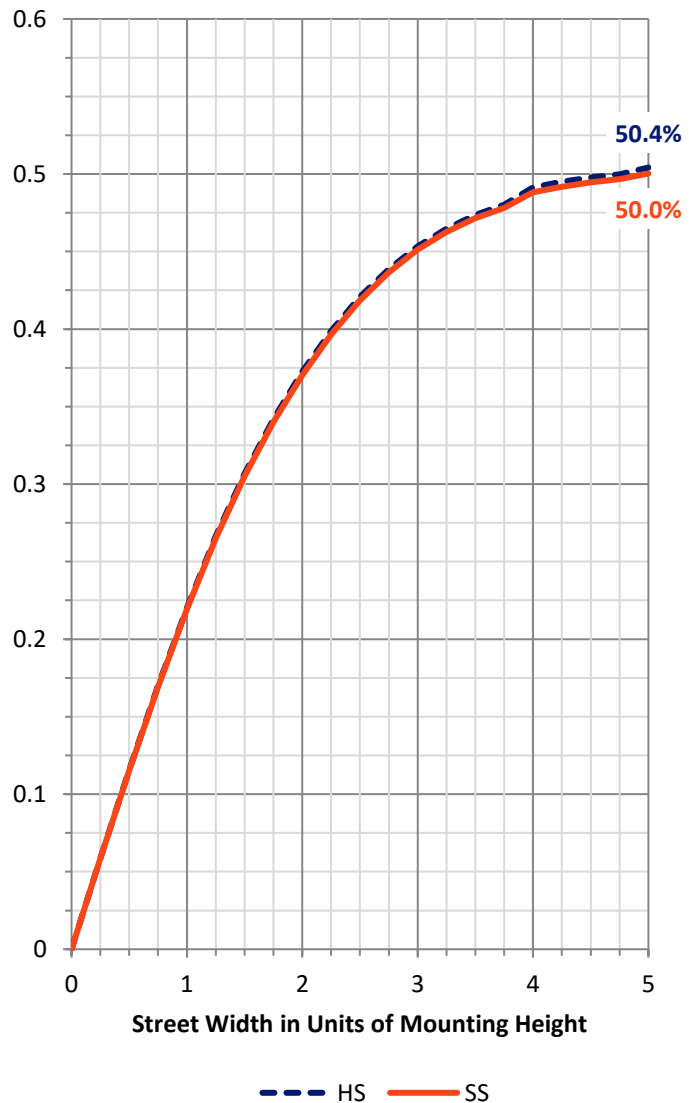
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5145.5	0.0	5145.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5145.5	0.0	5145.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10291.0	0.0	10291.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	0.7
10°-20°	211.3	2.1
20°-30°	386.2	3.8
30°-40°	665.9	6.5
40°-50°	1138.4	11.1
50°-60°	1845.1	17.9
60°-70°	3061.0	29.7
70°-80°	2696.0	26.2
80°-90°	217.4	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°	10291.0	100.0
0°-180°	10291.0	100.0



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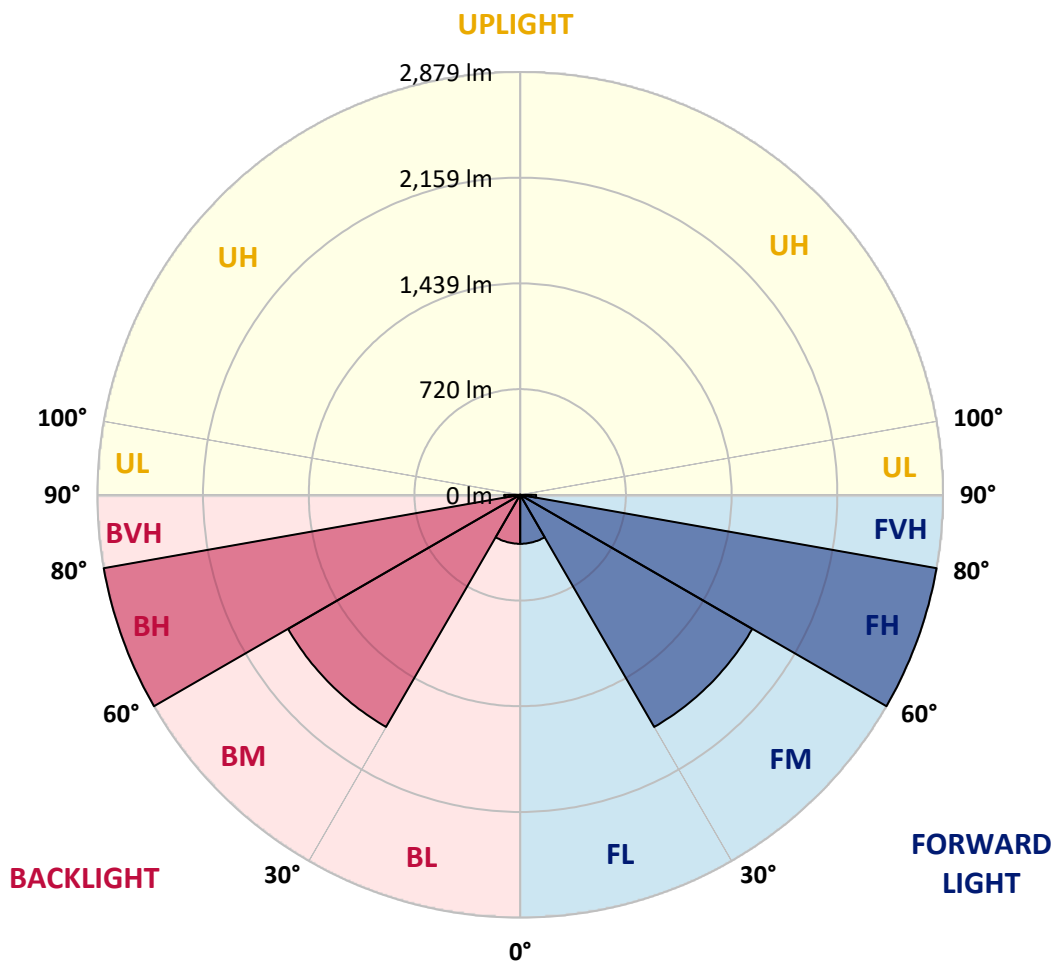
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.6	3.2			
FM	(30°-60°)	1824.7	17.7			
FH	(60°-80°)	2878.5	28.0			G2/5000
FVH	(80°-90°)	108.7	1.1			G2/225
BL	(0°-30°)	333.6	3.2	B1/500		
BM	(30°-60°)	1824.7	17.7	B2/2500		
BH	(60°-80°)	2878.5	28.0	B4/5000		G2/5000
BVH	(80°-90°)	108.7	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°	728.8	728.8	728.8	728.8	728.8	728.8	728.8	728.8	728.8	728.8	728.8
2.5°	728.8	729.2	729.7	729.2	729.2	728.8	728.3	728.8	728.3	727.3	727.8
5°	731.1	732.1	732.1	731.1	731.6	731.1	730.2	730.7	729.7	728.3	728.3
7.5°	734.0	734.4	734.4	733.5	734.0	733.0	732.1	731.6	730.7	728.8	727.3
10°	738.2	738.7	738.2	737.3	737.3	735.8	733.5	732.5	730.7	727.8	726.4
12.5°	742.9	743.4	742.9	742.0	741.5	739.1	737.3	735.8	734.4	732.1	729.7
15°	749.5	750.5	749.5	747.6	746.2	744.3	743.4	743.9	744.3	742.5	740.1
17.5°	761.8	762.3	760.9	756.6	754.7	752.8	752.8	753.8	755.2	754.3	751.9
20°	784.5	783.0	779.7	774.5	772.2	768.9	768.4	768.9	768.9	768.4	766.5
22.5°	812.8	811.8	807.6	801.0	797.7	795.8	793.0	790.6	790.1	788.7	786.8
25°	846.8	846.3	841.1	835.4	833.1	830.7	828.4	825.0	822.2	818.9	817.0
27.5°	890.2	888.3	880.7	877.9	874.6	873.2	869.9	866.1	863.8	859.5	857.1
30°	937.9	937.9	931.7	930.8	930.8	927.5	923.7	917.1	912.8	908.6	907.2
32.5°	985.5	986.0	979.9	981.8	983.2	985.5	986.5	984.1	981.3	980.8	978.0
35°	1054.4	1052.6	1046.4	1047.8	1047.4	1046.9	1046.9	1052.1	1053.0	1054.0	1048.3
37.5°	1139.9	1139.9	1133.7	1133.7	1130.9	1128.1	1124.3	1127.6	1132.8	1134.2	1130.4
40°	1237.6	1240.9	1233.3	1232.9	1233.8	1224.8	1220.6	1225.8	1229.1	1234.7	1230.5
42.5°	1352.7	1350.4	1342.8	1341.9	1336.7	1333.9	1330.1	1334.3	1339.5	1343.3	1344.7
45°	1463.2	1461.3	1452.8	1452.8	1447.6	1445.3	1447.1	1454.2	1456.6	1461.8	1467.0
47.5°	1572.2	1569.9	1564.2	1566.6	1567.0	1571.3	1577.4	1584.0	1590.6	1597.7	1600.1
50°	1683.6	1684.1	1677.9	1683.6	1690.7	1702.5	1719.0	1729.9	1743.6	1752.5	1755.4
52.5°	1785.1	1787.0	1793.6	1806.8	1821.0	1844.1	1872.4	1898.8	1921.5	1936.6	1935.7
55°	1906.9	1909.7	1925.7	1948.4	1971.5	2006.5	2048.5	2095.2	2133.0	2154.7	2141.0
57.5°	2062.6	2068.8	2086.7	2117.4	2151.8	2197.1	2254.7	2325.1	2383.6	2412.8	2390.7
60°	2276.4	2280.2	2301.9	2335.9	2377.4	2433.6	2510.5	2604.9	2687.5	2726.3	2700.8
62.5°	2558.2	2565.3	2582.8	2617.2	2659.7	2723.4	2817.3	2935.3	3038.2	3092.0	3034.5
65°	2894.8	2917.4	2932.0	2967.0	3006.6	3074.1	3172.3	3298.8	3409.2	3444.6	3378.1
67.5°	3228.0	3247.8	3273.3	3313.4	3353.5	3429.5	3520.6	3643.3	3764.6	3796.7	3693.4
70°	3373.8	3385.2	3424.8	3479.6	3556.5	3646.2	3751.4	3889.3	4039.3	4065.8	3934.6
72.5°	3081.7	3093.0	3137.4	3230.3	3364.4	3506.9	3690.5	3893.0	4091.3	4121.0	3940.2
75°	2330.7	2312.3	2377.9	2501.1	2681.9	2880.6	3137.4	3427.6	3714.1	3751.4	3535.7
77.5°	1204.5	1202.2	1251.7	1404.7	1620.4	1846.5	2129.2	2457.2	2737.6	2850.9	2675.3
80°	339.4	343.1	366.7	442.7	568.8	732.1	953.0	1260.2	1489.6	1606.7	1508.5
82.5°	133.1	143.5	152.5	166.6	183.1	207.2	276.6	411.6	552.2	659.9	540.4
85°	47.7	51.0	72.2	85.4	86.8	91.6	104.3	121.8	146.8	175.1	144.0
87.5°	17.9	19.8	23.1	38.2	37.8	34.5	42.0	43.9	33.0	30.2	37.3
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°	728.8	728.8	728.8	728.8	728.8	728.8	728.8	728.8
2.5°	726.9	727.3	727.3	727.8	728.3	728.3	729.2	729.2
5°	727.3	727.3	726.4	726.9	726.4	726.4	726.9	726.9
7.5°	726.4	725.9	725.0	724.5	723.6	723.6	723.6	723.6
10°	725.0	724.5	723.6	723.1	722.6	722.6	722.6	722.6
12.5°	728.8	727.3	726.4	725.9	725.9	725.9	725.9	725.9
15°	738.7	735.4	733.0	733.0	733.5	734.4	734.4	735.4
17.5°	750.9	747.2	744.8	742.9	743.9	745.3	746.2	747.2
20°	765.6	763.7	760.4	758.5	758.5	760.4	761.3	761.8
22.5°	785.9	784.5	783.0	780.7	780.7	781.6	783.5	783.5
25°	816.1	815.1	814.2	812.3	811.8	811.8	812.8	813.7
27.5°	853.8	854.3	853.4	852.9	851.5	851.0	852.4	852.0
30°	904.3	906.7	909.1	907.2	904.8	903.4	902.0	900.1
32.5°	972.8	970.0	968.1	964.8	960.5	956.7	953.9	950.6
35°	1037.4	1032.7	1030.8	1033.7	1033.2	1030.8	1027.5	1024.7
37.5°	1116.7	1115.8	1116.7	1121.9	1121.0	1123.4	1116.7	1116.3
40°	1216.8	1217.8	1224.4	1230.5	1233.8	1237.1	1233.3	1229.6
42.5°	1332.9	1332.4	1334.8	1343.3	1349.0	1352.7	1344.7	1343.8
45°	1455.6	1452.3	1454.2	1461.3	1467.0	1471.2	1462.2	1462.2
47.5°	1590.6	1585.0	1578.8	1586.9	1590.2	1593.0	1585.9	1583.5
50°	1741.2	1729.4	1716.2	1719.5	1719.5	1718.5	1709.6	1709.1
52.5°	1913.9	1892.2	1868.2	1859.2	1854.0	1848.3	1832.8	1825.2
55°	2112.7	2080.1	2042.3	2019.2	2006.9	1991.4	1965.4	1958.3
57.5°	2344.9	2293.9	2228.8	2200.4	2173.1	2147.6	2118.8	2110.8
60°	2620.1	2545.0	2458.6	2406.2	2376.5	2352.0	2322.2	2320.8
62.5°	2926.9	2808.4	2710.7	2663.5	2641.8	2620.1	2591.7	2595.5
65°	3238.8	3115.2	3023.6	2985.4	2965.1	2947.1	2918.8	2923.1
67.5°	3546.6	3432.8	3332.3	3293.1	3270.5	3247.8	3222.3	3226.6
70°	3767.5	3626.3	3513.1	3426.2	3371.9	3310.6	3270.9	3261.0
72.5°	3704.2	3486.6	3306.8	3134.5	3033.5	2951.4	2895.7	2871.6
75°	3205.8	2908.4	2677.2	2465.7	2346.8	2250.0	2179.7	2135.8
77.5°	2380.8	2046.6	1773.3	1529.7	1337.2	1207.8	1116.7	1057.7
80°	1303.2	991.2	724.5	509.3	374.3	311.0	274.7	257.2
82.5°	405.9	262.0	193.0	166.6	154.8	148.2	137.4	119.9
85°	129.3	113.3	105.3	100.5	95.8	83.5	57.6	52.4
87.5°	50.0	51.4	51.0	48.1	49.1	35.4	28.3	25.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)