

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: P193532

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193532
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-04-LED-E1-RW-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13196 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

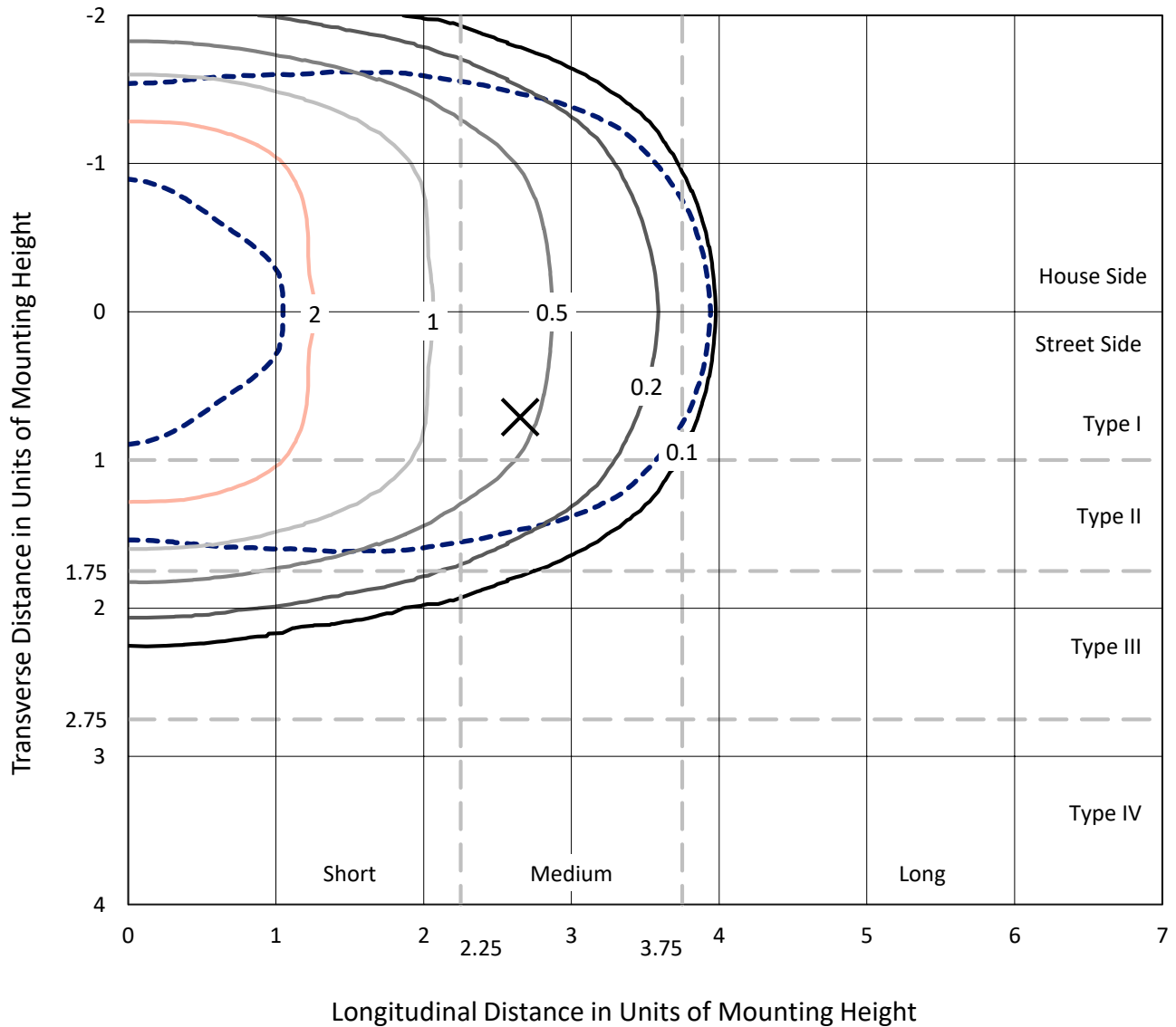
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

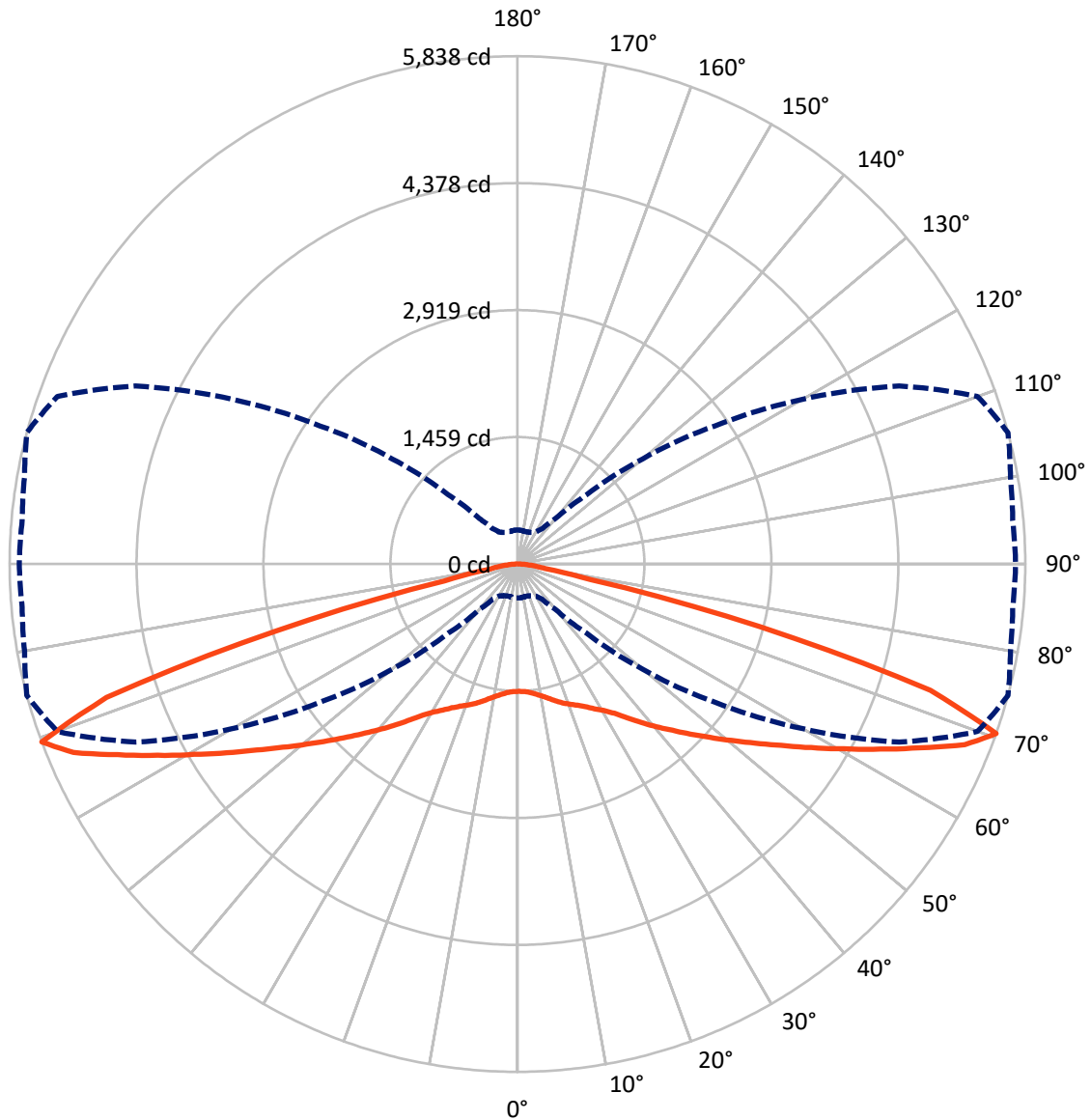
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 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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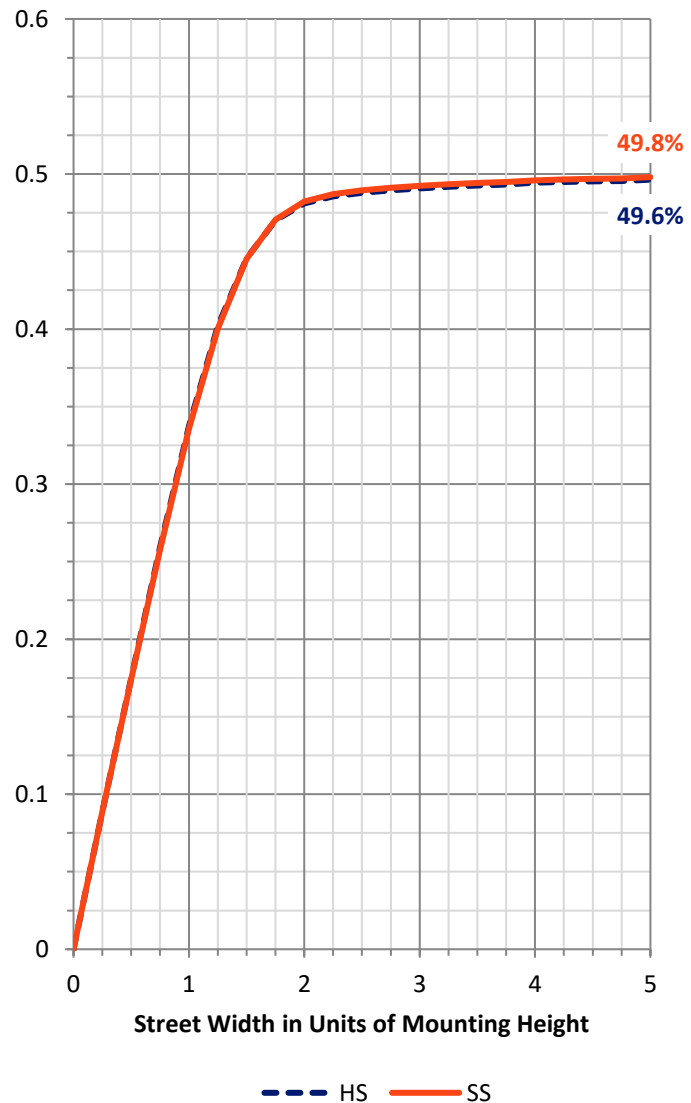
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6598.0	0.0	6598.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6598.0	0.0	6598.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13196.0	0.0	13196.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	1.1
10°-20°	436.2	3.3
20°-30°	821.0	6.2
30°-40°	1453.8	11.0
40°-50°	2431.2	18.4
50°-60°	3387.9	25.7
60°-70°	3141.8	23.8
70°-80°	1252.1	9.5
80°-90°	131.6	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°	13196.0	100.0
0°-180°	13196.0	100.0



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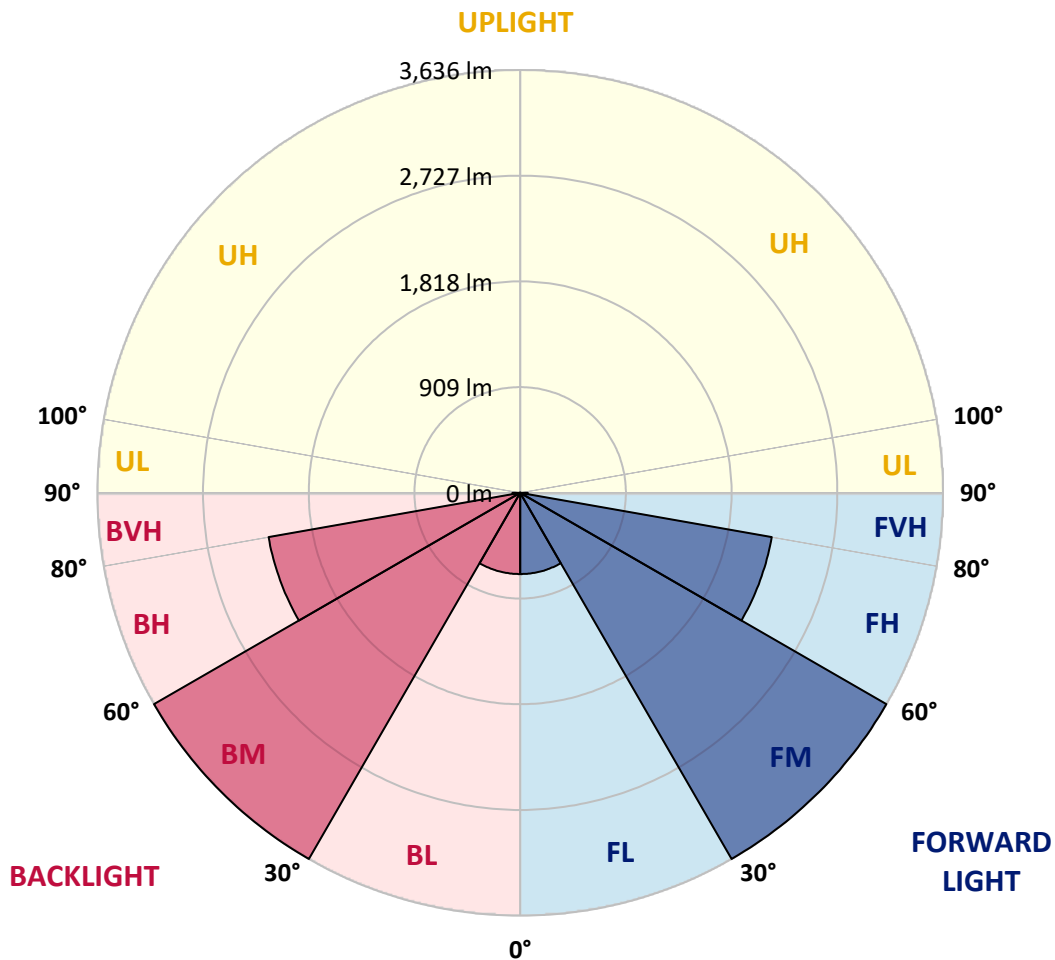
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	698.8	5.3			
FM (30°-60°)	3636.5	27.6			
FH (60°-80°)	2196.9	16.6			G2/5000
FVH (80°-90°)	65.8	0.5			G1/100
BL (0°-30°)	698.8	5.3	B2/1000		
BM (30°-60°)	3636.5	27.6	B3/5000		
BH (60°-80°)	2196.9	16.6	B3/2500		G3/2500
BVH (80°-90°)	65.8	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°	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7
2.5°	1461.2	1460.0	1461.2	1460.6	1461.9	1461.9	1463.1	1465.6	1465.6	1467.5	1466.9
5°	1446.9	1446.3	1448.2	1450.0	1451.9	1455.6	1459.4	1465.0	1469.4	1472.5	1475.6
7.5°	1418.8	1418.8	1421.3	1425.7	1430.1	1438.2	1446.9	1458.1	1469.4	1478.7	1486.8
10°	1395.8	1397.0	1400.1	1407.6	1415.1	1427.6	1439.4	1455.6	1471.2	1486.8	1499.3
12.5°	1382.0	1383.9	1389.5	1400.8	1413.2	1430.1	1448.2	1468.7	1486.2	1504.9	1517.4
15°	1386.4	1387.7	1395.8	1409.5	1425.7	1446.9	1471.2	1495.6	1516.1	1536.1	1552.9
17.5°	1410.7	1412.6	1422.0	1437.5	1454.4	1479.3	1505.5	1533.0	1558.5	1581.0	1601.6
20°	1454.4	1456.3	1468.1	1484.9	1504.9	1530.5	1556.7	1585.4	1614.0	1637.7	1660.8
22.5°	1516.1	1519.3	1530.5	1547.3	1569.8	1597.2	1628.4	1659.0	1686.4	1708.2	1728.8
25°	1597.2	1604.1	1614.7	1633.4	1657.1	1682.0	1715.7	1746.9	1773.1	1793.7	1808.6
27.5°	1712.0	1721.3	1729.4	1747.5	1770.6	1794.3	1828.0	1855.4	1880.4	1900.3	1911.5
30°	1864.1	1873.5	1881.6	1899.1	1920.3	1942.7	1974.5	1998.8	2014.4	2030.0	2029.4
32.5°	2048.7	2058.7	2061.8	2080.5	2102.4	2126.7	2155.4	2169.1	2181.6	2183.5	2172.2
35°	2255.2	2260.2	2272.6	2297.6	2322.5	2342.5	2369.9	2376.8	2376.8	2367.4	2342.5
37.5°	2481.6	2484.7	2502.1	2530.2	2555.8	2576.4	2595.1	2608.8	2601.9	2582.0	2540.2
40°	2729.8	2735.4	2760.3	2785.3	2814.0	2833.3	2853.3	2855.8	2848.9	2819.6	2762.8
42.5°	2966.8	2971.8	2996.7	3036.0	3073.4	3100.2	3119.0	3122.7	3100.9	3074.0	3003.6
45°	3170.7	3183.8	3216.2	3262.4	3316.7	3354.7	3380.3	3390.9	3371.5	3336.6	3254.9
47.5°	3332.2	3345.3	3391.5	3446.4	3513.7	3575.5	3617.9	3640.3	3635.3	3609.2	3520.0
50°	3450.7	3463.2	3513.1	3580.5	3659.0	3735.8	3808.1	3861.7	3880.4	3868.6	3786.9
52.5°	3464.5	3485.0	3543.7	3634.1	3736.4	3841.2	3944.1	4035.1	4096.9	4106.2	4045.7
55°	3273.0	3293.6	3374.7	3508.7	3660.9	3831.8	3996.5	4149.9	4271.5	4333.9	4302.0
57.5°	2821.5	2858.3	2943.7	3100.9	3324.8	3580.5	3843.0	4115.6	4363.2	4528.4	4560.2
60°	2162.2	2205.9	2292.0	2459.1	2708.6	3013.6	3364.1	3766.9	4204.1	4575.8	4797.9
62.5°	1387.0	1428.2	1518.6	1663.9	1867.3	2197.8	2573.9	3052.2	3639.7	4226.6	4755.5
65°	712.9	735.3	782.7	870.6	1029.0	1276.0	1613.4	2090.5	2762.2	3486.3	4250.9
67.5°	451.5	455.9	466.5	479.0	519.5	605.0	762.1	1059.6	1612.2	2367.4	3262.4
70°	390.4	390.4	385.4	383.6	388.5	400.4	424.7	493.9	680.4	1123.8	1881.6
72.5°	357.4	353.6	344.9	338.0	336.8	336.8	341.8	352.4	382.3	457.8	736.5
75°	329.3	318.7	306.8	298.7	295.6	292.5	291.9	293.7	300.0	311.8	351.7
77.5°	295.0	281.3	267.6	259.4	255.7	251.3	247.6	243.2	240.1	243.9	261.3
80°	253.8	238.2	227.6	222.6	218.9	212.7	204.6	197.1	190.2	189.0	199.6
82.5°	204.6	186.5	187.1	189.0	182.1	173.4	164.6	156.5	144.7	138.5	144.7
85°	165.3	155.9	151.6	163.4	153.4	140.3	126.6	112.3	93.5	78.6	85.4
87.5°	64.2	64.2	96.0	147.8	132.8	108.5	92.9	79.2	49.3	38.0	38.7
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°	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7
2.5°	1466.2	1467.5	1466.9	1466.2	1466.2	1465.6	1466.2	1466.2
5°	1477.5	1480.6	1480.6	1481.8	1481.8	1482.5	1483.1	1482.5
7.5°	1494.3	1499.9	1503.7	1508.0	1508.6	1509.3	1510.5	1509.3
10°	1511.1	1522.4	1530.5	1538.6	1542.3	1543.6	1544.8	1544.8
12.5°	1532.3	1547.9	1562.3	1576.6	1583.5	1587.2	1587.2	1589.7
15°	1567.3	1582.9	1599.7	1619.0	1630.9	1637.1	1639.0	1639.0
17.5°	1616.5	1630.3	1644.6	1663.3	1678.3	1686.4	1688.3	1687.6
20°	1673.9	1687.0	1695.1	1707.0	1720.1	1729.4	1731.9	1731.9
22.5°	1739.4	1746.9	1748.1	1751.9	1762.5	1775.0	1780.6	1781.8
25°	1811.7	1813.6	1808.6	1808.6	1815.5	1827.3	1833.0	1833.6
27.5°	1905.3	1895.9	1883.5	1879.1	1883.5	1897.2	1904.1	1906.5
30°	2021.9	1999.5	1970.8	1955.2	1952.7	1970.8	1983.3	1985.1
32.5°	2155.4	2123.0	2084.9	2053.1	2045.0	2056.2	2071.2	2070.6
35°	2313.8	2275.1	2229.0	2188.4	2169.7	2181.0	2202.2	2204.7
37.5°	2496.5	2446.0	2393.0	2341.9	2312.6	2315.7	2338.1	2345.6
40°	2700.5	2635.0	2568.3	2499.7	2457.9	2449.8	2477.2	2481.6
42.5°	2918.8	2834.6	2750.4	2665.5	2611.9	2599.4	2631.2	2629.4
45°	3151.4	3044.1	2945.6	2852.0	2788.4	2769.7	2795.9	2795.9
47.5°	3401.5	3269.3	3152.0	3046.0	2976.8	2949.9	2974.9	2976.8
50°	3666.5	3526.2	3388.4	3270.5	3187.6	3153.3	3185.7	3190.7
52.5°	3930.3	3793.8	3654.7	3520.0	3419.6	3377.8	3415.2	3431.4
55°	4197.9	4063.8	3931.0	3799.4	3680.3	3631.0	3670.9	3691.5
57.5°	4480.4	4356.3	4229.7	4096.9	3982.1	3905.4	3947.8	3975.2
60°	4811.6	4705.6	4574.0	4427.4	4311.4	4233.4	4257.8	4282.1
62.5°	5073.5	5114.7	5003.0	4833.4	4684.4	4584.6	4608.3	4633.8
65°	4946.9	5369.1	5468.3	5296.8	5090.4	4935.1	4925.1	4938.2
67.5°	4134.9	4955.0	5553.1	5716.5	5543.8	5328.0	5288.1	5307.4
70°	2766.0	3787.5	4842.8	5628.6	5837.5	5753.9	5714.7	5726.5
72.5°	1328.4	2205.9	3285.5	4330.1	4966.3	5258.1	5351.7	5397.2
75°	485.8	875.6	1583.5	2386.1	2880.7	3334.7	3631.0	3752.0
77.5°	293.1	353.6	505.8	761.5	862.5	965.4	925.5	945.5
80°	217.0	245.1	277.5	311.8	323.1	323.1	310.6	300.6
82.5°	152.2	170.3	185.9	204.6	209.6	200.2	164.6	131.0
85°	97.9	106.0	112.9	124.7	121.6	116.0	78.0	69.2
87.5°	44.9	51.1	53.6	59.2	56.8	54.3	38.7	32.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)