

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: P192622

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192622
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-04-LED-E1-5WQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19762.8 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 171
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



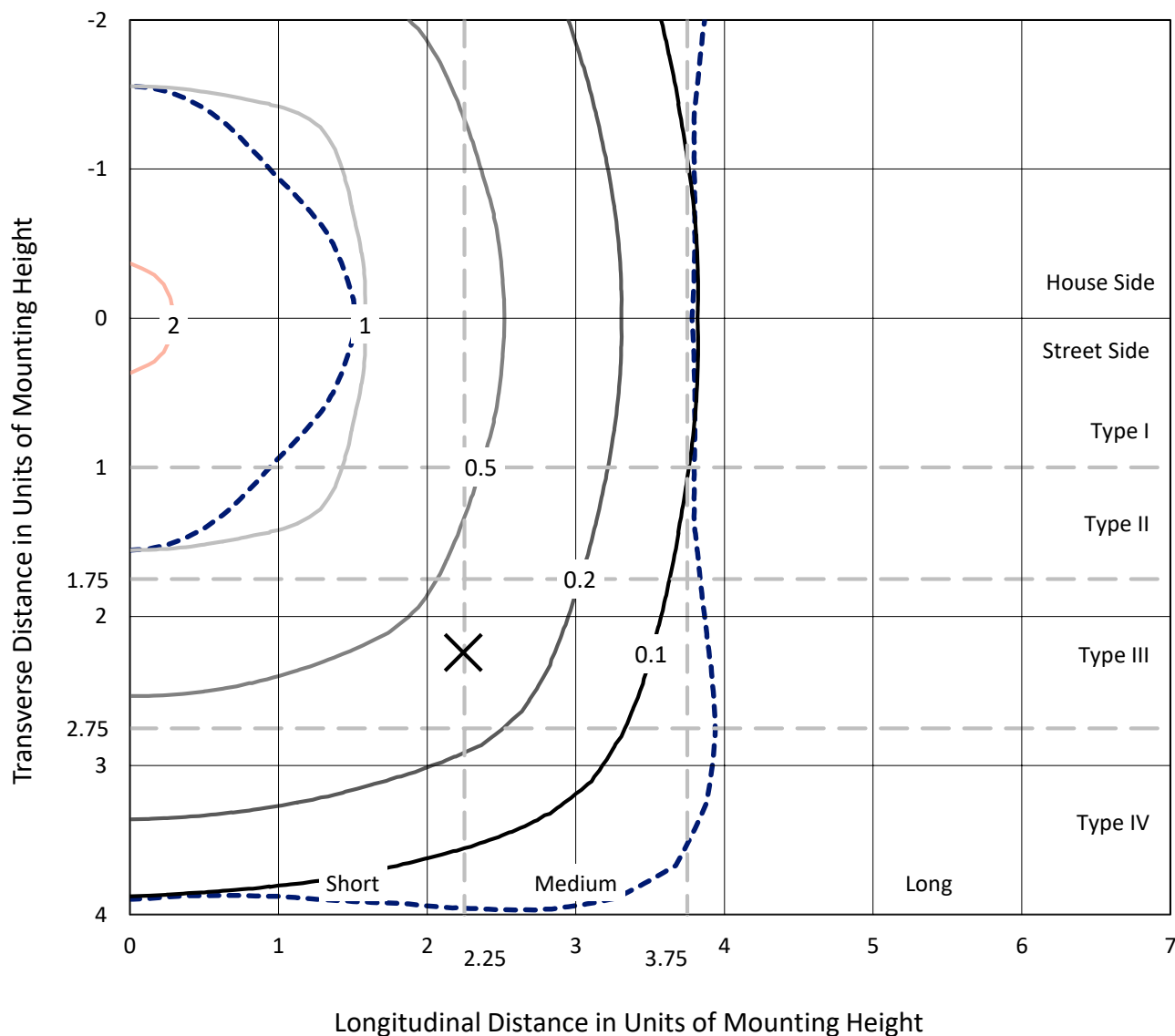
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

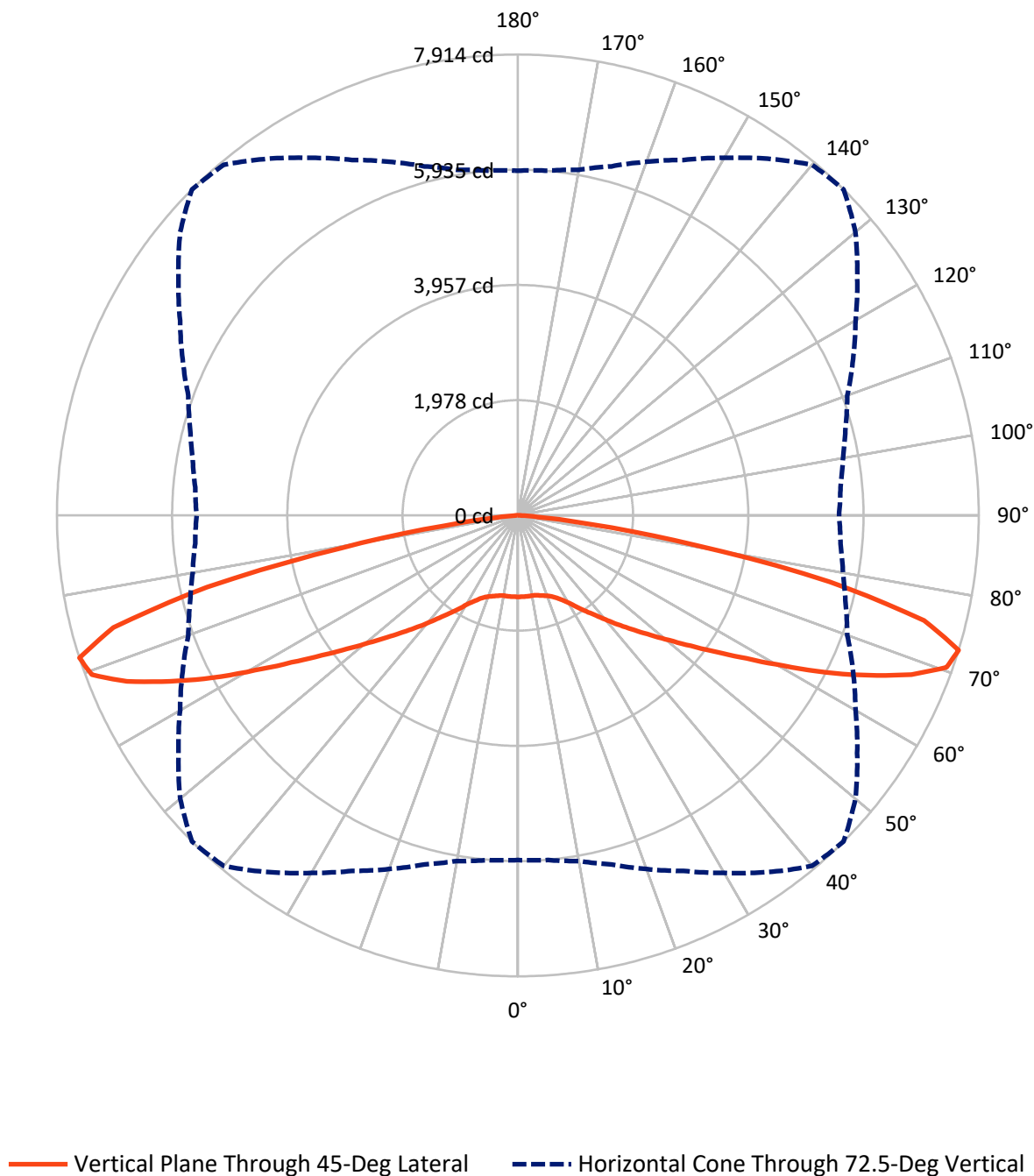


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9881.4	0.0	9881.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9881.4	0.0	9881.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	19762.8	0.0	19762.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	0.7
10°-20°	405.9	2.1
20°-30°	741.7	3.8
30°-40°	1278.8	6.5
40°-50°	2186.1	11.1
50°-60°	3543.4	17.9
60°-70°	5878.4	29.7
70°-80°	5177.5	26.2
80°-90°	417.4	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°	19762.8	100.0
0°-180°	19762.8	100.0

Coefficient of Utilization



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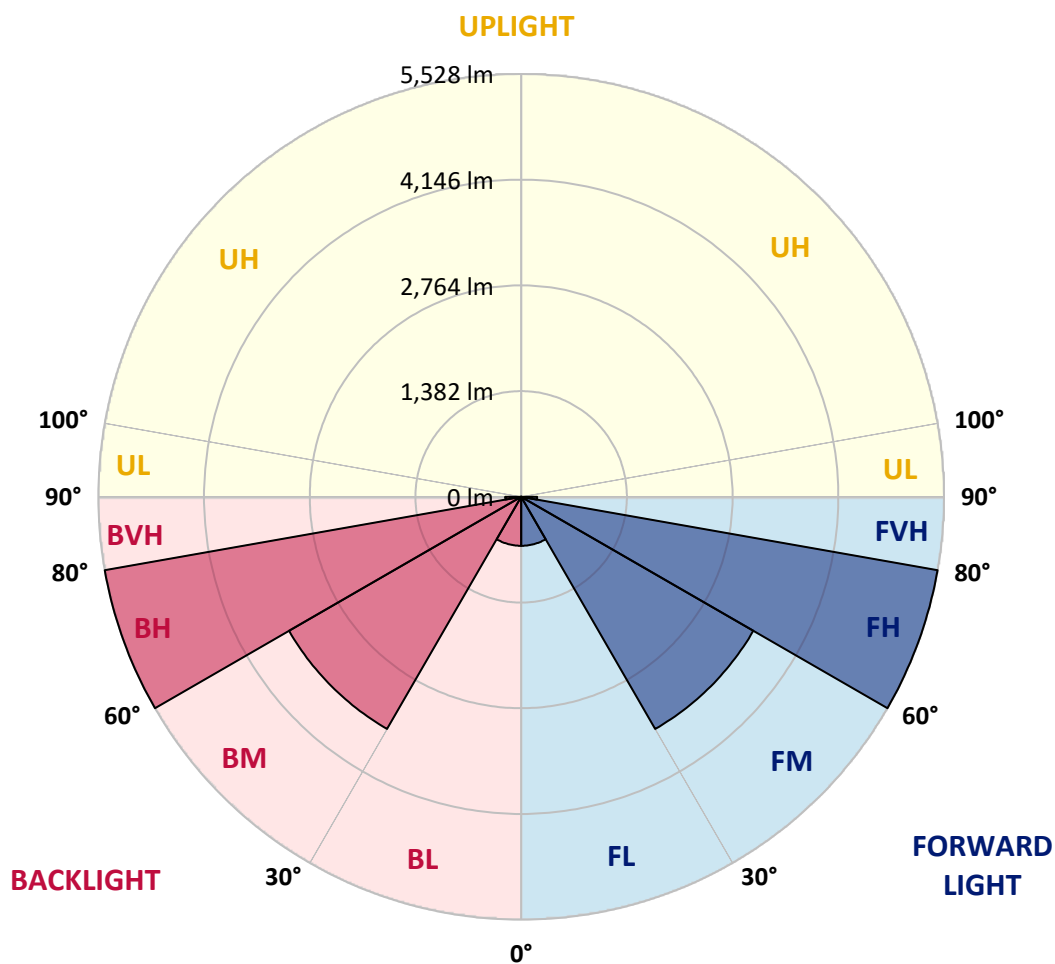
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	640.6	3.2			
FM	(30°-60°)	3504.2	17.7			
FH	(60°-80°)	5527.9	28.0			G3/7500
FVH	(80°-90°)	208.7	1.1			G2/225
BL	(0°-30°)	640.6	3.2	B2/1000		
BM	(30°-60°)	3504.2	17.7	B3/5000		
BH	(60°-80°)	5527.9	28.0	B5		G3/7500
BVH	(80°-90°)	208.7	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5
2.5°	1399.5	1400.3	1401.4	1400.3	1400.3	1399.5	1398.6	1399.5	1398.6	1396.8	1397.8
5°	1404.1	1405.8	1405.8	1404.1	1405.0	1404.1	1402.3	1403.1	1401.4	1398.6	1398.6
7.5°	1409.5	1410.4	1410.4	1408.6	1409.5	1407.7	1405.8	1405.0	1403.1	1399.5	1396.8
10°	1417.6	1418.5	1417.6	1415.8	1415.8	1413.2	1408.6	1406.7	1403.1	1397.8	1395.0
12.5°	1426.7	1427.6	1426.7	1424.8	1423.9	1419.5	1415.8	1413.2	1410.4	1405.8	1401.4
15°	1439.4	1441.2	1439.4	1435.7	1433.1	1429.4	1427.6	1428.6	1429.4	1425.9	1421.3
17.5°	1463.0	1463.8	1461.2	1453.0	1449.4	1445.7	1445.7	1447.5	1450.3	1448.4	1444.0
20°	1506.4	1503.7	1497.4	1487.4	1482.8	1476.5	1475.6	1476.5	1476.5	1475.6	1472.0
22.5°	1560.9	1559.0	1550.9	1538.2	1531.9	1528.2	1522.7	1518.2	1517.4	1514.7	1511.0
25°	1626.1	1625.2	1615.3	1604.4	1599.9	1595.3	1590.9	1584.5	1579.1	1572.7	1569.0
27.5°	1709.5	1705.9	1691.4	1686.0	1679.7	1676.9	1670.6	1663.3	1658.8	1650.6	1646.1
30°	1801.0	1801.0	1789.2	1787.5	1787.5	1781.2	1773.9	1761.2	1753.1	1744.9	1742.1
32.5°	1892.6	1893.5	1881.8	1885.4	1888.1	1892.6	1894.4	1889.8	1884.5	1883.5	1878.0
35°	2024.9	2021.3	2009.5	2012.2	2011.4	2010.5	2010.5	2020.4	2022.3	2024.0	2013.2
37.5°	2189.0	2189.0	2177.2	2177.2	2171.7	2166.4	2159.1	2165.4	2175.5	2178.1	2170.9
40°	2376.6	2383.0	2368.5	2367.5	2369.4	2352.2	2344.0	2354.0	2360.3	2371.2	2363.1
42.5°	2597.8	2593.3	2578.7	2577.0	2566.9	2561.6	2554.3	2562.4	2572.4	2579.7	2582.4
45°	2809.9	2806.4	2789.9	2789.9	2780.0	2775.5	2779.1	2792.6	2797.2	2807.2	2817.1
47.5°	3019.3	3014.8	3003.9	3008.5	3009.3	3017.5	3029.2	3042.0	3054.7	3068.2	3072.8
50°	3233.2	3234.1	3222.3	3233.2	3246.7	3269.5	3301.2	3322.0	3348.4	3365.5	3370.9
52.5°	3428.1	3431.8	3444.4	3469.7	3497.0	3541.4	3595.7	3646.5	3690.0	3719.0	3717.2
55°	3662.0	3667.4	3698.2	3741.7	3786.2	3853.2	3933.9	4023.6	4096.1	4137.8	4111.5
57.5°	3961.0	3972.8	4007.3	4066.2	4132.4	4219.4	4330.0	4465.0	4577.4	4633.5	4591.1
60°	4371.7	4378.9	4420.6	4485.8	4565.6	4673.4	4821.3	5002.6	5161.2	5235.4	5186.5
62.5°	4912.9	4926.4	4960.0	5026.2	5107.7	5230.0	5410.4	5637.0	5834.7	5937.9	5827.4
65°	5559.1	5602.6	5630.6	5697.8	5774.0	5903.5	6092.1	6335.0	6547.1	6615.1	6487.3
67.5°	6199.1	6237.1	6286.0	6363.0	6440.1	6586.0	6761.0	6996.6	7229.5	7291.2	7092.8
70°	6479.1	6500.8	6577.0	6682.2	6829.9	7002.1	7204.2	7469.0	7757.2	7807.8	7556.0
72.5°	5918.0	5939.8	6025.0	6203.5	6460.9	6734.7	7087.3	7476.2	7856.9	7913.9	7566.7
75°	4476.0	4440.6	4566.6	4803.1	5150.3	5531.9	6025.0	6582.5	7132.7	7204.2	6790.0
77.5°	2313.2	2308.6	2403.8	2697.5	3111.7	3545.9	4088.9	4718.8	5257.2	5474.8	5137.6
80°	651.7	659.0	704.2	850.2	1092.3	1405.8	1830.1	2420.1	2860.6	3085.5	2896.9
82.5°	255.5	275.6	292.9	320.0	351.7	397.9	531.1	790.4	1060.5	1267.2	1037.9
85°	91.6	97.9	138.6	164.1	166.7	175.8	200.3	233.9	281.9	336.3	276.4
87.5°	34.4	38.0	44.5	73.4	72.5	66.2	80.7	84.3	63.5	58.0	71.6
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°	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5
2.5°	1395.9	1396.8	1396.8	1397.8	1398.6	1398.6	1400.3	1400.3
5°	1396.8	1396.8	1395.0	1395.9	1395.0	1395.0	1395.9	1395.9
7.5°	1395.0	1394.0	1392.3	1391.3	1389.6	1389.6	1389.6	1389.6
10°	1392.3	1391.3	1389.6	1388.6	1387.7	1387.7	1387.7	1387.7
12.5°	1399.5	1396.8	1395.0	1394.0	1394.0	1394.0	1394.0	1394.0
15°	1418.5	1412.1	1407.7	1407.7	1408.6	1410.4	1410.4	1412.1
17.5°	1442.1	1434.9	1430.3	1426.7	1428.6	1431.2	1433.1	1434.9
20°	1470.2	1466.6	1460.2	1456.7	1456.7	1460.2	1462.1	1463.0
22.5°	1509.2	1506.4	1503.7	1499.2	1499.2	1501.0	1504.6	1504.6
25°	1567.3	1565.3	1563.6	1560.0	1559.0	1559.0	1560.9	1562.6
27.5°	1639.8	1640.6	1638.8	1637.9	1635.2	1634.3	1637.0	1636.0
30°	1736.6	1741.3	1745.8	1742.1	1737.7	1734.9	1732.2	1728.6
32.5°	1868.2	1862.7	1859.0	1852.7	1844.6	1837.3	1831.8	1825.5
35°	1992.4	1983.3	1979.7	1985.0	1984.1	1979.7	1973.3	1967.9
37.5°	2144.5	2142.8	2144.5	2154.6	2152.7	2157.4	2144.5	2143.6
40°	2336.7	2338.5	2351.3	2363.1	2369.4	2375.8	2368.5	2361.2
42.5°	2559.7	2558.9	2563.3	2579.7	2590.5	2597.8	2582.4	2580.6
45°	2795.4	2789.1	2792.6	2806.4	2817.1	2825.3	2808.1	2808.1
47.5°	3054.7	3043.8	3032.0	3047.3	3053.7	3059.2	3045.6	3041.0
50°	3343.8	3321.2	3295.7	3302.2	3302.2	3300.2	3283.0	3282.1
52.5°	3675.6	3633.9	3587.6	3570.4	3560.4	3549.5	3519.7	3505.1
55°	4057.2	3994.6	3922.1	3877.7	3854.1	3824.2	3774.4	3760.7
57.5°	4503.1	4405.3	4280.1	4225.7	4173.1	4124.2	4069.0	4053.5
60°	5031.5	4887.3	4721.5	4620.9	4563.9	4516.7	4459.6	4456.9
62.5°	5620.8	5393.2	5205.5	5115.0	5073.2	5031.5	4977.2	4984.4
65°	6219.9	5982.4	5806.6	5733.2	5694.1	5659.7	5605.3	5613.4
67.5°	6810.9	6592.3	6399.4	6324.2	6280.6	6237.1	6188.1	6196.3
70°	7235.0	6964.0	6746.5	6579.7	6475.5	6357.7	6281.6	6262.4
72.5°	7113.6	6695.7	6350.3	6019.5	5825.6	5667.9	5560.9	5514.7
75°	6156.4	5585.4	5141.2	4735.2	4506.7	4320.8	4185.8	4101.6
77.5°	4572.0	3930.3	3405.4	2937.8	2567.9	2319.6	2144.5	2031.2
80°	2502.6	1903.6	1391.3	978.0	718.8	597.3	527.5	494.0
82.5°	779.6	503.0	370.7	320.0	297.3	284.6	263.8	230.2
85°	248.3	217.5	202.1	193.1	184.0	160.4	110.6	100.6
87.5°	96.0	98.8	97.9	92.5	94.3	68.0	54.4	48.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)