

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: P191673

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191673
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-05-LED-E1-5WQ-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 20646 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 162
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

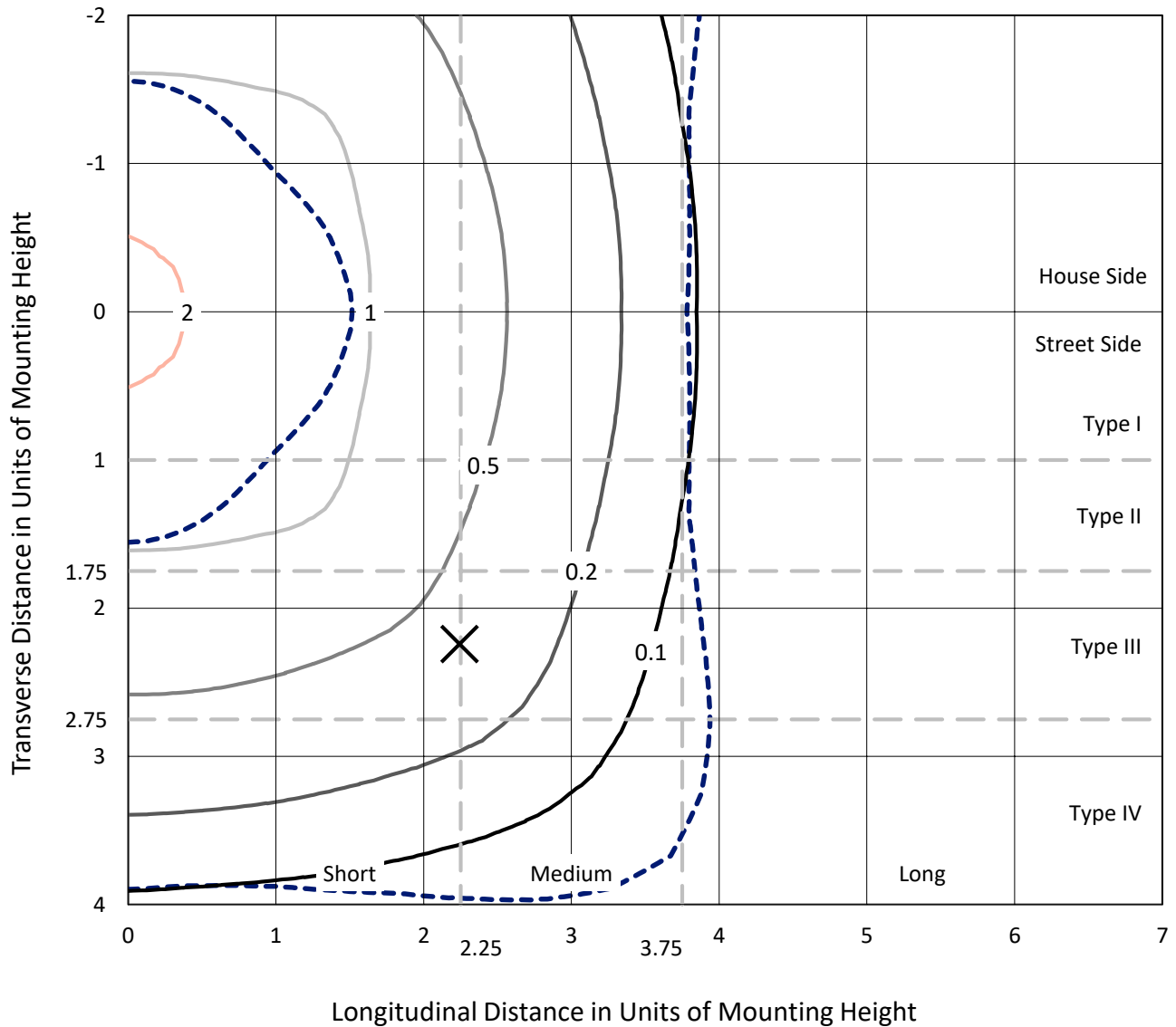


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Iso-Footcandle Lines of Horizontal Illumination

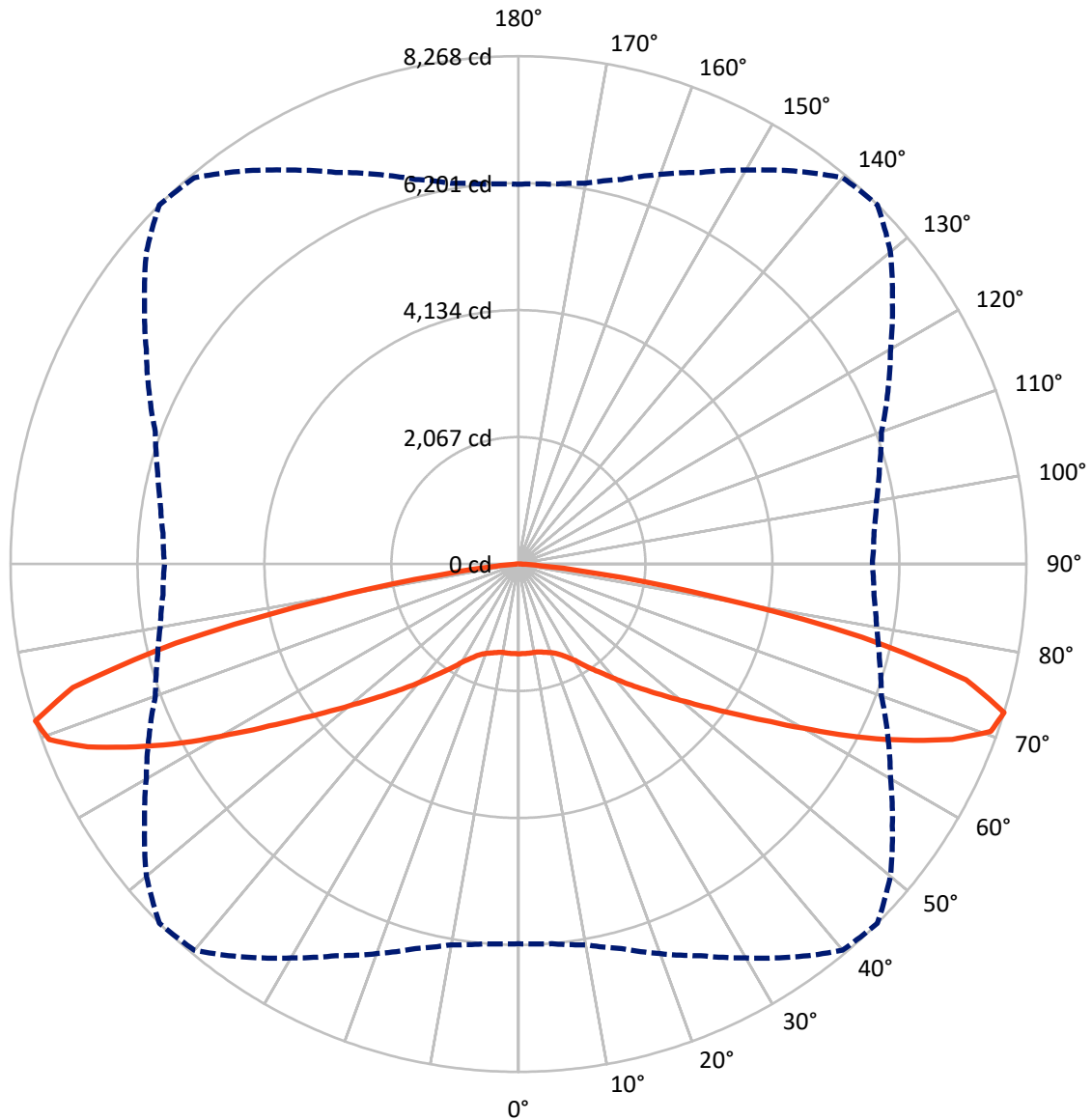
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	10323.0	0.0	10323.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10323.0	0.0	10323.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20646.0	0.0	20646.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	0.7
10°-20°	424.0	2.1
20°-30°	774.8	3.8
30°-40°	1336.0	6.5
40°-50°	2283.8	11.1
50°-60°	3701.8	17.9
60°-70°	6141.1	29.7
70°-80°	5408.8	26.2
80°-90°	436.1	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°	20646.0	100.0
0°-180°	20646.0	100.0



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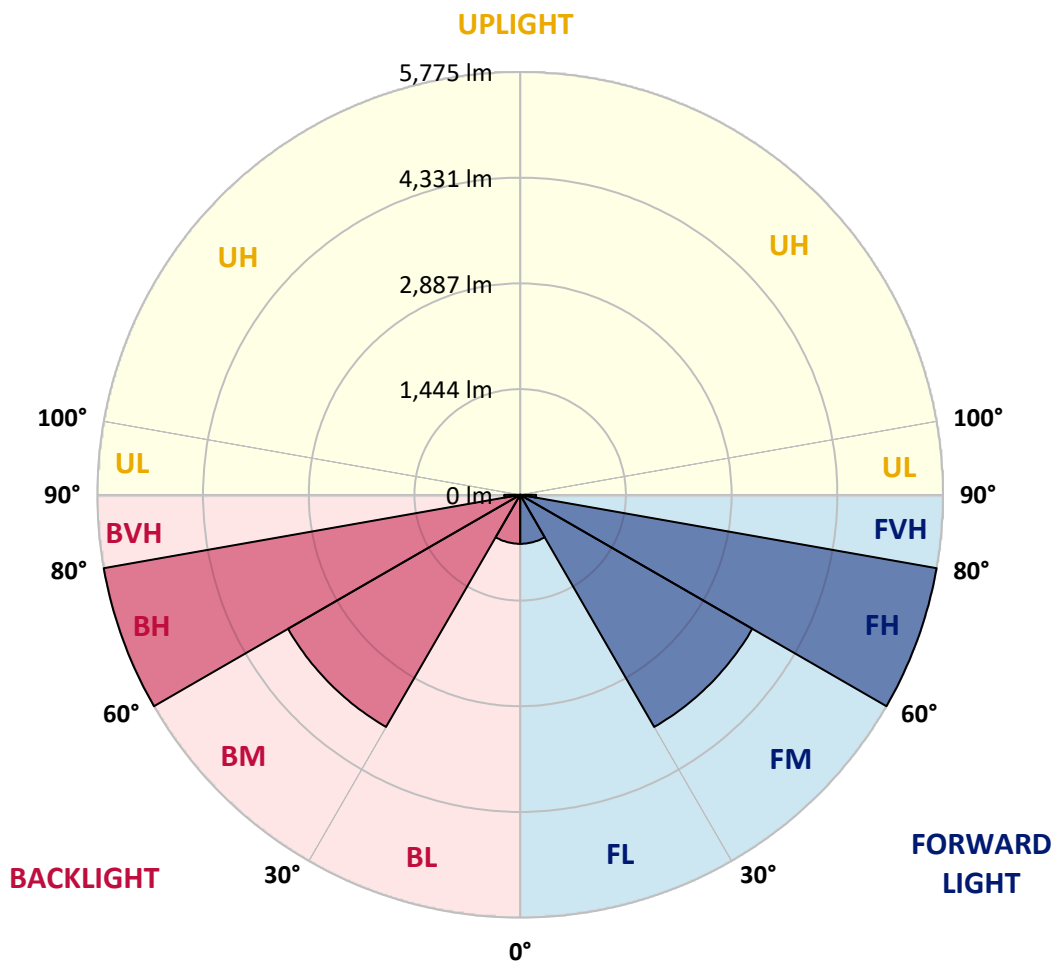
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	669.2	3.2			
FM (30°-60°)	3660.8	17.7			
FH (60°-80°)	5775.0	28.0			G3/7500
FVH (80°-90°)	218.1	1.1			G2/225
BL (0°-30°)	669.2	3.2	B2/1000		
BM (30°-60°)	3660.8	17.7	B3/5000		
BH (60°-80°)	5775.0	28.0	B5		G3/7500
BVH (80°-90°)	218.1	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°	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1
2.5°	1462.1	1463.0	1464.0	1463.0	1463.0	1462.1	1461.1	1462.1	1461.1	1459.2	1460.2
5°	1466.8	1468.7	1468.7	1466.8	1467.7	1466.8	1464.9	1465.8	1464.0	1461.1	1461.1
7.5°	1472.5	1473.4	1473.4	1471.5	1472.5	1470.6	1468.7	1467.7	1465.8	1462.1	1459.2
10°	1481.0	1481.9	1481.0	1479.1	1479.1	1476.3	1471.5	1469.6	1465.8	1460.2	1457.3
12.5°	1490.5	1491.4	1490.5	1488.6	1487.6	1482.9	1479.1	1476.3	1473.4	1468.7	1464.0
15°	1503.7	1505.6	1503.7	1499.9	1497.1	1493.3	1491.4	1492.4	1493.3	1489.5	1484.8
17.5°	1528.3	1529.3	1526.4	1517.9	1514.1	1510.4	1510.4	1512.2	1515.1	1513.2	1508.5
20°	1573.8	1571.0	1564.3	1553.9	1549.2	1542.5	1541.6	1542.5	1542.5	1541.6	1537.8
22.5°	1630.6	1628.7	1620.2	1606.9	1600.3	1596.5	1590.8	1586.1	1585.2	1582.3	1578.5
25°	1698.8	1697.8	1687.4	1676.1	1671.3	1666.6	1661.9	1655.2	1649.5	1642.9	1639.1
27.5°	1785.9	1782.1	1767.0	1761.3	1754.7	1751.8	1745.2	1737.6	1732.9	1724.4	1719.6
30°	1881.5	1881.5	1869.2	1867.3	1867.3	1860.7	1853.1	1839.9	1831.4	1822.8	1820.0
32.5°	1977.2	1978.1	1965.8	1969.6	1972.5	1977.2	1979.1	1974.3	1968.7	1967.7	1962.0
35°	2115.4	2111.7	2099.3	2102.2	2101.2	2100.3	2100.3	2110.7	2112.6	2114.5	2103.1
37.5°	2286.8	2286.8	2274.5	2274.5	2268.8	2263.2	2255.6	2262.2	2272.6	2275.5	2267.9
40°	2482.8	2489.5	2474.3	2473.4	2475.3	2457.3	2448.8	2459.2	2465.8	2477.2	2468.6
42.5°	2713.9	2709.2	2694.0	2692.1	2681.7	2676.0	2668.4	2677.0	2687.4	2695.0	2697.8
45°	2935.5	2931.7	2914.6	2914.6	2904.2	2899.5	2903.3	2917.5	2922.2	2932.6	2943.1
47.5°	3154.2	3149.5	3138.1	3142.9	3143.8	3152.3	3164.6	3177.9	3191.1	3205.4	3210.1
50°	3377.7	3378.6	3366.3	3377.7	3391.9	3415.6	3448.7	3470.5	3498.0	3515.9	3521.6
52.5°	3581.3	3585.1	3598.3	3624.8	3653.2	3699.6	3756.5	3809.5	3854.9	3885.2	3883.4
55°	3825.6	3831.3	3863.5	3908.9	3955.3	4025.4	4109.7	4203.4	4279.2	4322.7	4295.3
57.5°	4138.1	4150.4	4186.4	4247.9	4317.0	4408.0	4523.5	4664.6	4782.0	4840.7	4796.2
60°	4567.0	4574.6	4618.2	4686.3	4769.7	4882.4	5036.7	5226.1	5391.8	5469.5	5418.3
62.5°	5132.4	5146.6	5181.6	5250.7	5335.9	5463.8	5652.2	5888.9	6095.4	6203.3	6087.8
65°	5807.5	5853.0	5882.3	5952.4	6031.9	6167.3	6364.3	6618.1	6839.7	6910.7	6777.2
67.5°	6476.0	6515.8	6566.9	6647.4	6727.9	6880.4	7063.1	7309.3	7552.7	7617.1	7409.7
70°	6768.6	6791.4	6870.9	6980.8	7135.1	7315.0	7526.2	7802.7	8103.8	8156.8	7893.6
72.5°	6182.5	6205.2	6294.2	6480.8	6749.7	7035.7	7404.0	7810.3	8208.0	8267.6	7905.0
75°	4675.9	4639.0	4770.6	5017.8	5380.4	5779.1	6294.2	6876.6	7451.4	7526.2	7093.4
77.5°	2416.6	2411.8	2511.3	2818.1	3250.8	3704.4	4271.6	4929.7	5492.2	5719.4	5367.2
80°	680.8	688.4	735.8	888.2	1141.0	1468.7	1911.8	2528.3	2988.5	3223.3	3026.4
82.5°	267.0	287.9	305.9	334.3	367.4	415.7	554.9	825.7	1107.9	1323.8	1084.2
85°	95.6	102.3	144.9	171.4	174.2	183.7	209.3	244.3	294.5	351.3	288.8
87.5°	36.0	39.8	46.4	76.7	75.8	69.1	84.3	88.1	66.3	60.6	74.8
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°	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1
2.5°	1458.3	1459.2	1459.2	1460.2	1461.1	1461.1	1463.0	1463.0
5°	1459.2	1459.2	1457.3	1458.3	1457.3	1457.3	1458.3	1458.3
7.5°	1457.3	1456.4	1454.5	1453.5	1451.6	1451.6	1451.6	1451.6
10°	1454.5	1453.5	1451.6	1450.7	1449.7	1449.7	1449.7	1449.7
12.5°	1462.1	1459.2	1457.3	1456.4	1456.4	1456.4	1456.4	1456.4
15°	1481.9	1475.3	1470.6	1470.6	1471.5	1473.4	1473.4	1475.3
17.5°	1506.6	1499.0	1494.3	1490.5	1492.4	1495.2	1497.1	1499.0
20°	1535.9	1532.1	1525.5	1521.7	1521.7	1525.5	1527.4	1528.3
22.5°	1576.6	1573.8	1571.0	1566.2	1566.2	1568.1	1571.9	1571.9
25°	1637.2	1635.3	1633.5	1629.7	1628.7	1628.7	1630.6	1632.5
27.5°	1713.0	1713.9	1712.0	1711.1	1708.3	1707.3	1710.2	1709.2
30°	1814.3	1819.0	1823.8	1820.0	1815.3	1812.4	1809.6	1805.8
32.5°	1951.6	1945.9	1942.2	1935.5	1927.0	1919.4	1913.7	1907.1
35°	2081.3	2071.9	2068.1	2073.8	2072.8	2068.1	2061.5	2055.8
37.5°	2240.4	2238.5	2240.4	2250.8	2249.0	2253.7	2240.4	2239.5
40°	2441.2	2443.1	2456.3	2468.6	2475.3	2481.9	2474.3	2466.7
42.5°	2674.1	2673.2	2677.9	2695.0	2706.3	2713.9	2697.8	2695.9
45°	2920.3	2913.7	2917.5	2931.7	2943.1	2951.6	2933.6	2933.6
47.5°	3191.1	3179.8	3167.5	3183.6	3190.2	3195.9	3181.7	3176.9
50°	3493.2	3469.5	3443.0	3449.7	3449.7	3447.8	3429.8	3428.8
52.5°	3839.8	3796.2	3747.9	3730.0	3719.5	3708.2	3676.9	3661.8
55°	4238.5	4173.1	4097.4	4051.0	4026.3	3995.1	3943.0	3928.8
57.5°	4704.3	4602.1	4471.4	4414.6	4359.7	4308.5	4250.8	4234.7
60°	5256.4	5105.8	4932.6	4827.4	4767.8	4718.5	4658.9	4656.0
62.5°	5871.9	5634.2	5438.2	5343.5	5300.0	5256.4	5199.6	5207.2
65°	6497.8	6249.7	6066.0	5989.3	5948.6	5912.6	5855.8	5864.3
67.5°	7115.2	6887.0	6685.3	6606.7	6561.3	6515.8	6464.7	6473.2
70°	7558.4	7275.3	7048.0	6873.8	6764.9	6641.8	6562.2	6542.3
72.5°	7431.5	6995.0	6634.2	6288.6	6085.9	5921.1	5809.4	5761.1
75°	6431.5	5835.0	5371.0	4946.8	4708.1	4514.0	4372.9	4284.9
77.5°	4776.3	4105.9	3557.6	3069.0	2682.6	2423.2	2240.4	2122.1
80°	2614.5	1988.5	1453.5	1021.7	750.9	624.0	551.1	516.1
82.5°	814.4	525.5	387.3	334.3	310.6	297.3	275.6	240.5
85°	259.5	227.3	211.2	201.7	192.2	167.6	115.5	105.1
87.5°	100.4	103.2	102.3	96.6	98.5	71.0	56.8	50.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)