

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: P193432

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193432
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20637 lumens
Efficiency: N/A
Efficacy: 91.7 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

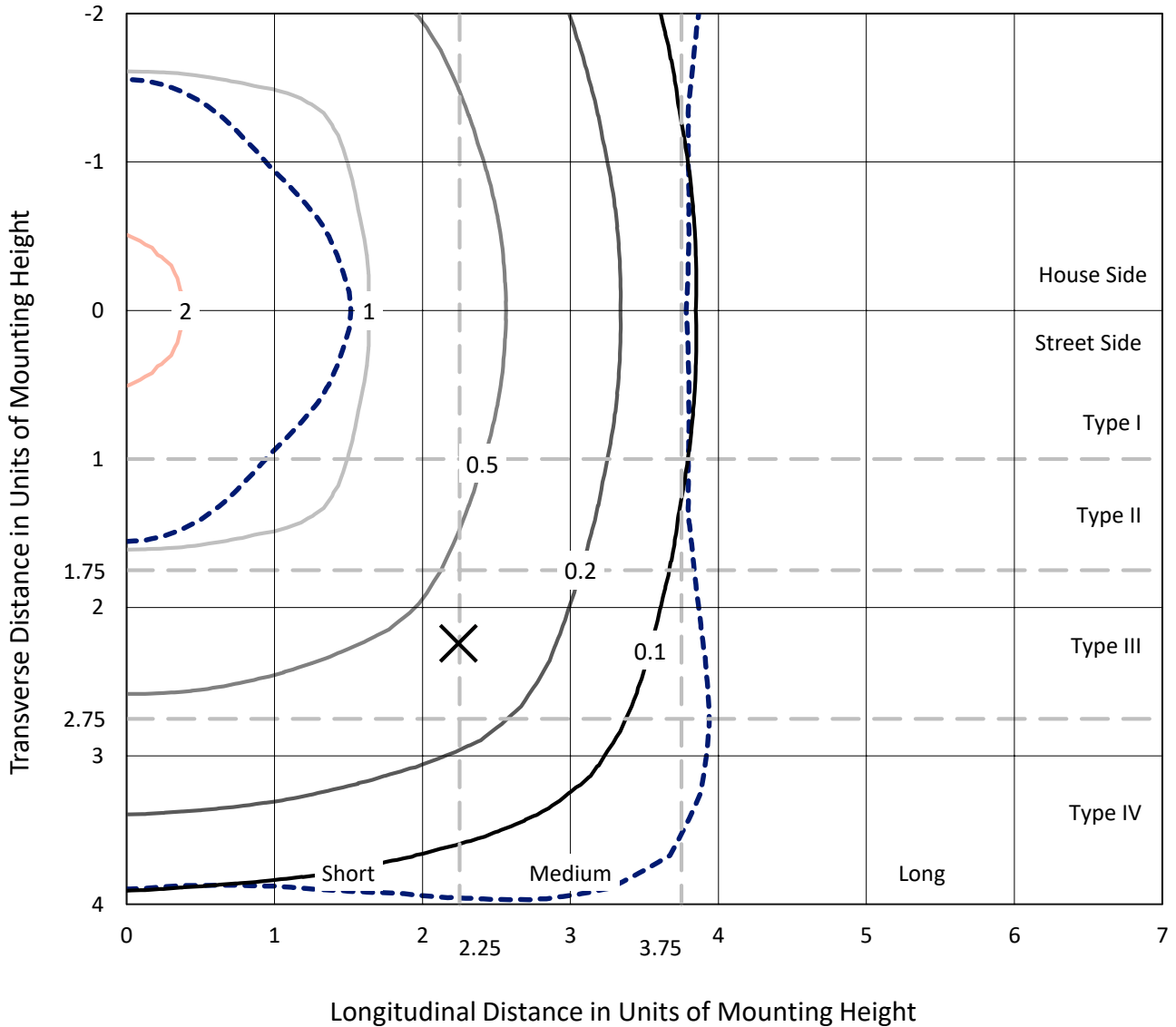
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

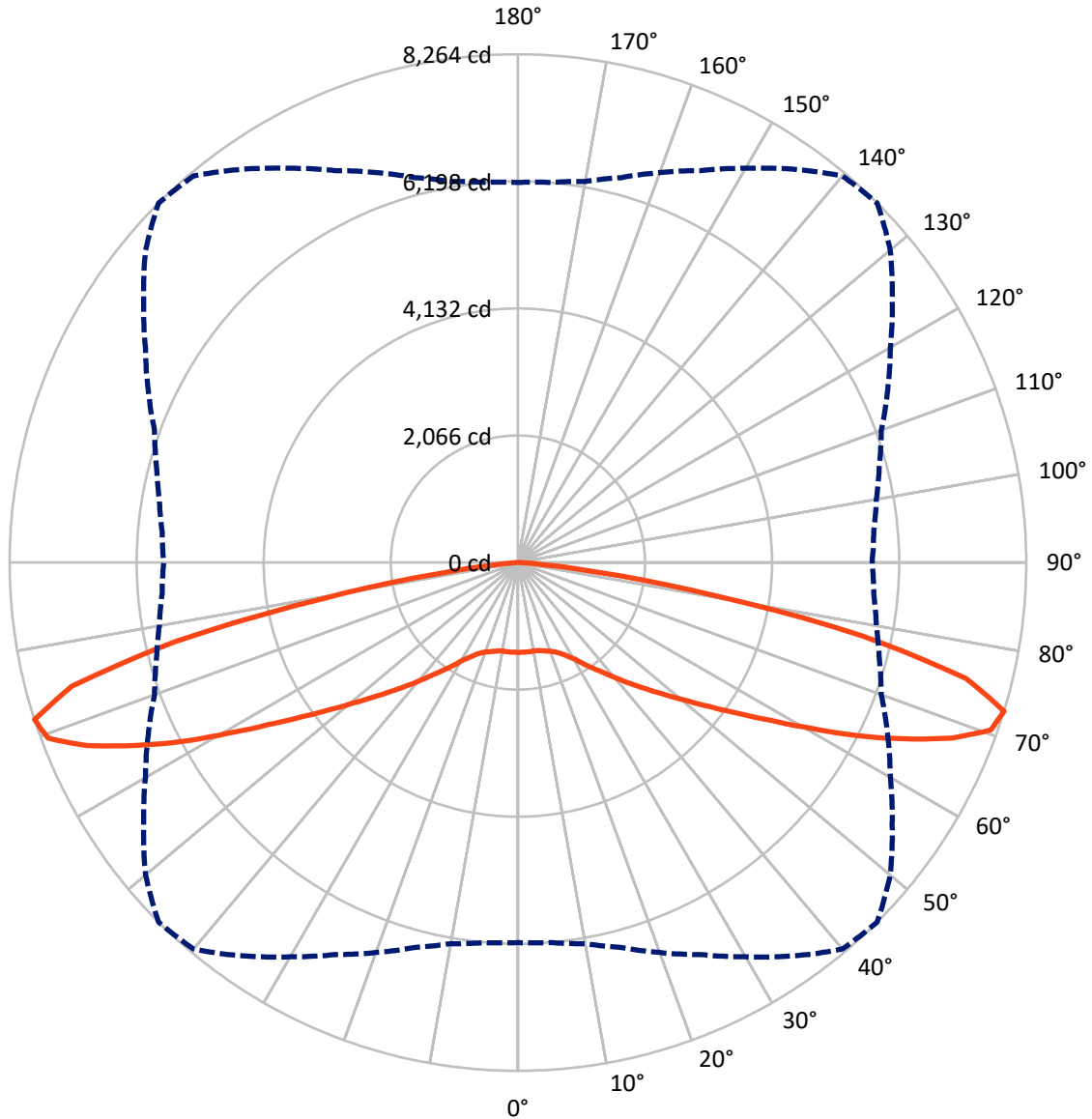
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P193432
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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	10318.5	0.0	10318.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10318.5	0.0	10318.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20637.0	0.0	20637.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	0.7
10°-20°	423.8	2.1
20°-30°	774.5	3.8
30°-40°	1335.4	6.5
40°-50°	2282.8	11.1
50°-60°	3700.1	17.9
60°-70°	6138.4	29.7
70°-80°	5406.5	26.2
80°-90°	435.9	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°	20637.0	100.0
0°-180°	20637.0	100.0



REPORT NUMBER: P193432

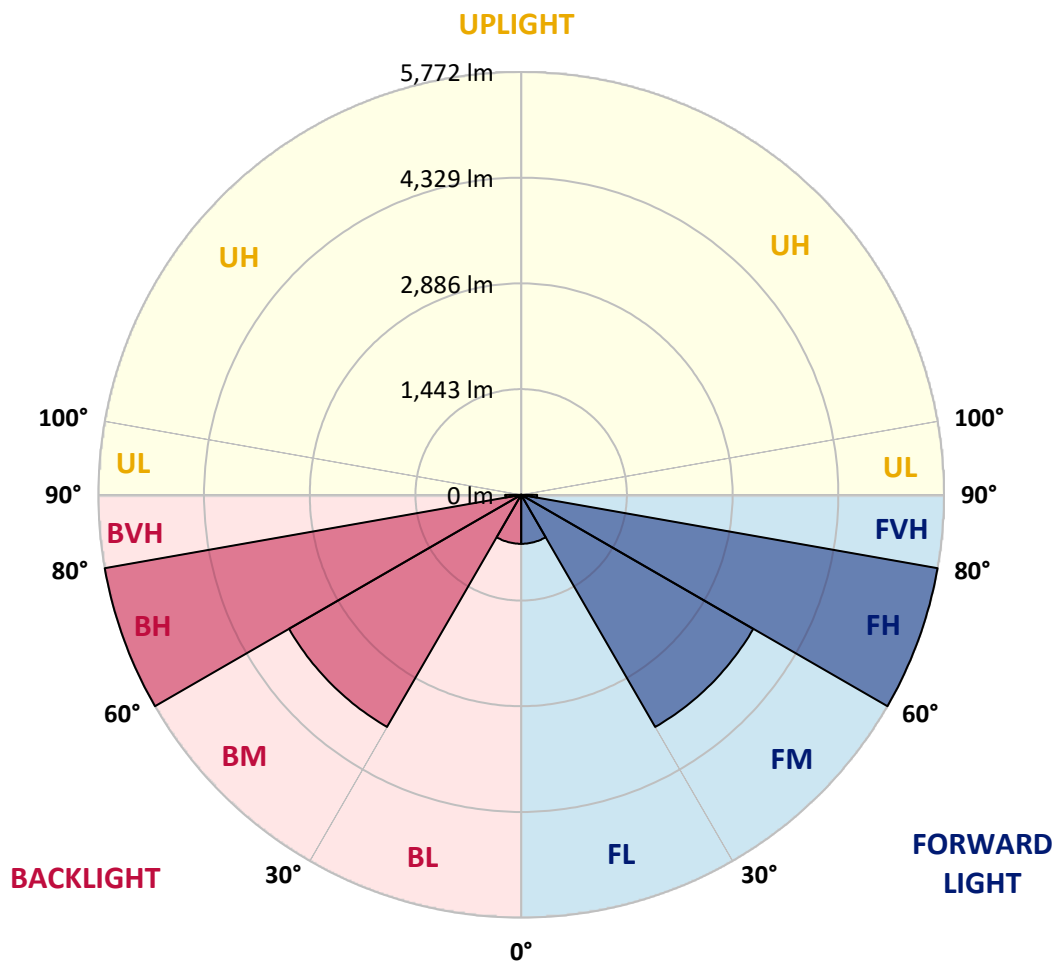
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	668.9	3.2			
FM (30°-60°)	3659.2	17.7			
FH (60°-80°)	5772.4	28.0			G3/7500
FVH (80°-90°)	218.0	1.1			G2/225
BL (0°-30°)	668.9	3.2	B2/1000		
BM (30°-60°)	3659.2	17.7	B3/5000		
BH (60°-80°)	5772.4	28.0	B5		G3/7500
BVH (80°-90°)	218.0	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





REPORT NUMBER: P193432

CATALOG NUMBER: GLEON-AF-04-LED-E1-5WQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1461.4	1461.4	1461.4	1461.4	1461.4	1461.4	1461.4	1461.4	1461.4	1461.4	1461.4
2.5°	1461.4	1462.4	1463.3	1462.4	1462.4	1461.4	1460.5	1461.4	1460.5	1458.6	1459.5
5°	1466.2	1468.0	1468.0	1466.2	1467.1	1466.2	1464.3	1465.2	1463.3	1460.5	1460.5
7.5°	1471.8	1472.8	1472.8	1470.9	1471.8	1469.9	1468.0	1467.1	1465.2	1461.4	1458.6
10°	1480.4	1481.3	1480.4	1478.5	1478.5	1475.6	1470.9	1469.0	1465.2	1459.5	1456.7
12.5°	1489.8	1490.8	1489.8	1487.9	1487.0	1482.2	1478.5	1475.6	1472.8	1468.0	1463.3
15°	1503.1	1505.0	1503.1	1499.3	1496.4	1492.7	1490.8	1491.7	1492.7	1488.9	1484.1
17.5°	1527.7	1528.6	1525.8	1517.3	1513.5	1509.7	1509.7	1511.6	1514.4	1512.5	1507.8
20°	1573.1	1570.3	1563.6	1553.2	1548.5	1541.9	1540.9	1541.9	1541.9	1540.9	1537.1
22.5°	1629.9	1628.0	1619.5	1606.2	1599.6	1595.8	1590.1	1585.4	1584.5	1581.6	1577.8
25°	1698.0	1697.1	1686.7	1675.3	1670.6	1665.9	1661.1	1654.5	1648.8	1642.2	1638.4
27.5°	1785.1	1781.3	1766.2	1760.5	1753.9	1751.1	1744.4	1736.9	1732.1	1723.6	1718.9
30°	1880.7	1880.7	1868.4	1866.5	1866.5	1859.9	1852.3	1839.1	1830.6	1822.0	1819.2
32.5°	1976.3	1977.3	1965.0	1968.8	1971.6	1976.3	1978.2	1973.5	1967.8	1966.9	1961.2
35°	2114.5	2110.7	2098.4	2101.3	2100.3	2099.4	2099.4	2109.8	2111.7	2113.6	2102.2
37.5°	2285.8	2285.8	2273.5	2273.5	2267.9	2262.2	2254.6	2261.2	2271.6	2274.5	2266.9
40°	2481.8	2488.4	2473.2	2472.3	2474.2	2456.2	2447.7	2458.1	2464.7	2476.1	2467.6
42.5°	2712.7	2708.0	2692.8	2690.9	2680.5	2674.9	2667.3	2675.8	2686.2	2693.8	2696.6
45°	2934.2	2930.4	2913.4	2913.4	2903.0	2898.2	2902.0	2916.2	2920.9	2931.4	2941.8
47.5°	3152.8	3148.1	3136.8	3141.5	3142.4	3151.0	3163.3	3176.5	3189.8	3204.0	3208.7
50°	3376.2	3377.2	3364.9	3376.2	3390.4	3414.1	3447.2	3469.0	3496.4	3514.4	3520.1
52.5°	3579.7	3583.5	3596.8	3623.3	3651.7	3698.0	3754.8	3807.8	3853.3	3883.6	3881.7
55°	3823.9	3829.6	3861.8	3907.2	3953.6	4023.6	4107.9	4201.6	4277.3	4320.8	4293.4
57.5°	4136.3	4148.6	4184.5	4246.1	4315.2	4406.0	4521.5	4662.5	4779.9	4838.6	4794.1
60°	4565.0	4572.6	4616.2	4684.3	4767.6	4880.2	5034.5	5223.8	5389.5	5467.1	5416.0
62.5°	5130.1	5144.3	5179.3	5248.4	5333.6	5461.4	5649.8	5886.4	6092.7	6200.6	6085.1
65°	5805.0	5850.4	5879.8	5949.8	6029.3	6164.7	6361.5	6615.2	6836.7	6907.7	6774.2
67.5°	6473.2	6513.0	6564.1	6644.5	6725.0	6877.4	7060.1	7306.2	7549.4	7613.8	7406.5
70°	6765.7	6788.4	6867.9	6977.7	7132.0	7311.8	7522.9	7799.3	8100.3	8153.3	7890.2
72.5°	6179.8	6202.5	6291.5	6478.0	6746.8	7032.6	7400.8	7806.9	8204.4	8264.0	7901.5
75°	4673.9	4637.0	4768.5	5015.6	5378.1	5776.6	6291.5	6873.6	7448.1	7522.9	7090.3
77.5°	2415.5	2410.8	2510.2	2816.8	3249.4	3702.8	4269.7	4927.6	5489.8	5717.0	5364.9
80°	680.5	688.1	735.4	887.8	1140.6	1468.0	1911.0	2527.2	2987.2	3221.9	3025.1
82.5°	266.9	287.7	305.7	334.1	367.2	415.5	554.7	825.4	1107.4	1323.2	1083.8
85°	95.6	102.2	144.8	171.3	174.2	183.6	209.2	244.2	294.4	351.2	288.7
87.5°	36.0	39.8	46.4	76.7	75.7	69.1	84.2	88.0	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°	1461.4	1461.4	1461.4	1461.4	1461.4	1461.4	1461.4	1461.4
2.5°	1457.6	1458.6	1458.6	1459.5	1460.5	1460.5	1462.4	1462.4
5°	1458.6	1458.6	1456.7	1457.6	1456.7	1456.7	1457.6	1457.6
7.5°	1456.7	1455.7	1453.8	1452.9	1451.0	1451.0	1451.0	1451.0
10°	1453.8	1452.9	1451.0	1450.1	1449.1	1449.1	1449.1	1449.1
12.5°	1461.4	1458.6	1456.7	1455.7	1455.7	1455.7	1455.7	1455.7
15°	1481.3	1474.7	1469.9	1469.9	1470.9	1472.8	1472.8	1474.7
17.5°	1505.9	1498.3	1493.6	1489.8	1491.7	1494.5	1496.4	1498.3
20°	1535.2	1531.5	1524.8	1521.1	1521.1	1524.8	1526.7	1527.7
22.5°	1575.9	1573.1	1570.3	1565.5	1565.5	1567.4	1571.2	1571.2
25°	1636.5	1634.6	1632.7	1629.0	1628.0	1628.0	1629.9	1631.8
27.5°	1712.2	1713.2	1711.3	1710.4	1707.5	1706.6	1709.4	1708.5
30°	1813.5	1818.3	1823.0	1819.2	1814.5	1811.6	1808.8	1805.0
32.5°	1950.8	1945.1	1941.3	1934.7	1926.2	1918.6	1912.9	1906.3
35°	2080.4	2071.0	2067.2	2072.9	2071.9	2067.2	2060.6	2054.9
37.5°	2239.5	2237.6	2239.5	2249.9	2248.0	2252.7	2239.5	2238.5
40°	2440.1	2442.0	2455.3	2467.6	2474.2	2480.8	2473.2	2465.7
42.5°	2673.0	2672.0	2676.7	2693.8	2705.1	2712.7	2696.6	2694.7
45°	2919.1	2912.4	2916.2	2930.4	2941.8	2950.3	2932.3	2932.3
47.5°	3189.8	3178.4	3166.1	3182.2	3188.8	3194.5	3180.3	3175.6
50°	3491.7	3468.0	3441.5	3448.2	3448.2	3446.3	3428.3	3427.3
52.5°	3838.1	3794.6	3746.3	3728.3	3717.9	3706.6	3675.3	3660.2
55°	4236.6	4171.3	4095.6	4049.2	4024.6	3993.3	3941.3	3927.1
57.5°	4702.3	4600.1	4469.4	4412.7	4357.8	4306.6	4248.9	4232.8
60°	5254.1	5103.6	4930.4	4825.3	4765.7	4716.5	4656.9	4654.0
62.5°	5869.3	5631.8	5435.8	5341.2	5297.6	5254.1	5197.3	5204.9
65°	6495.0	6247.0	6063.4	5986.7	5946.0	5910.0	5853.3	5861.8
67.5°	7112.1	6884.0	6682.4	6603.8	6558.4	6513.0	6461.9	6470.4
70°	7555.1	7272.1	7044.9	6870.8	6761.9	6638.9	6559.4	6539.5
72.5°	7428.3	6991.9	6631.3	6285.8	6083.3	5918.6	5806.9	5758.6
75°	6428.7	5832.4	5368.6	4944.6	4706.1	4512.0	4371.0	4283.0
77.5°	4774.2	4104.1	3556.1	3067.7	2681.5	2422.1	2239.5	2121.1
80°	2613.3	1987.7	1452.9	1021.3	750.6	623.8	550.9	515.9
82.5°	814.0	525.3	387.1	334.1	310.5	297.2	275.4	240.4
85°	259.3	227.2	211.1	201.6	192.1	167.5	115.5	105.1
87.5°	100.3	103.2	102.2	96.5	98.4	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)