

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: P193423

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193423
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 20659 lumens
Efficiency: N/A
Efficacy: 98.4 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): 210
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

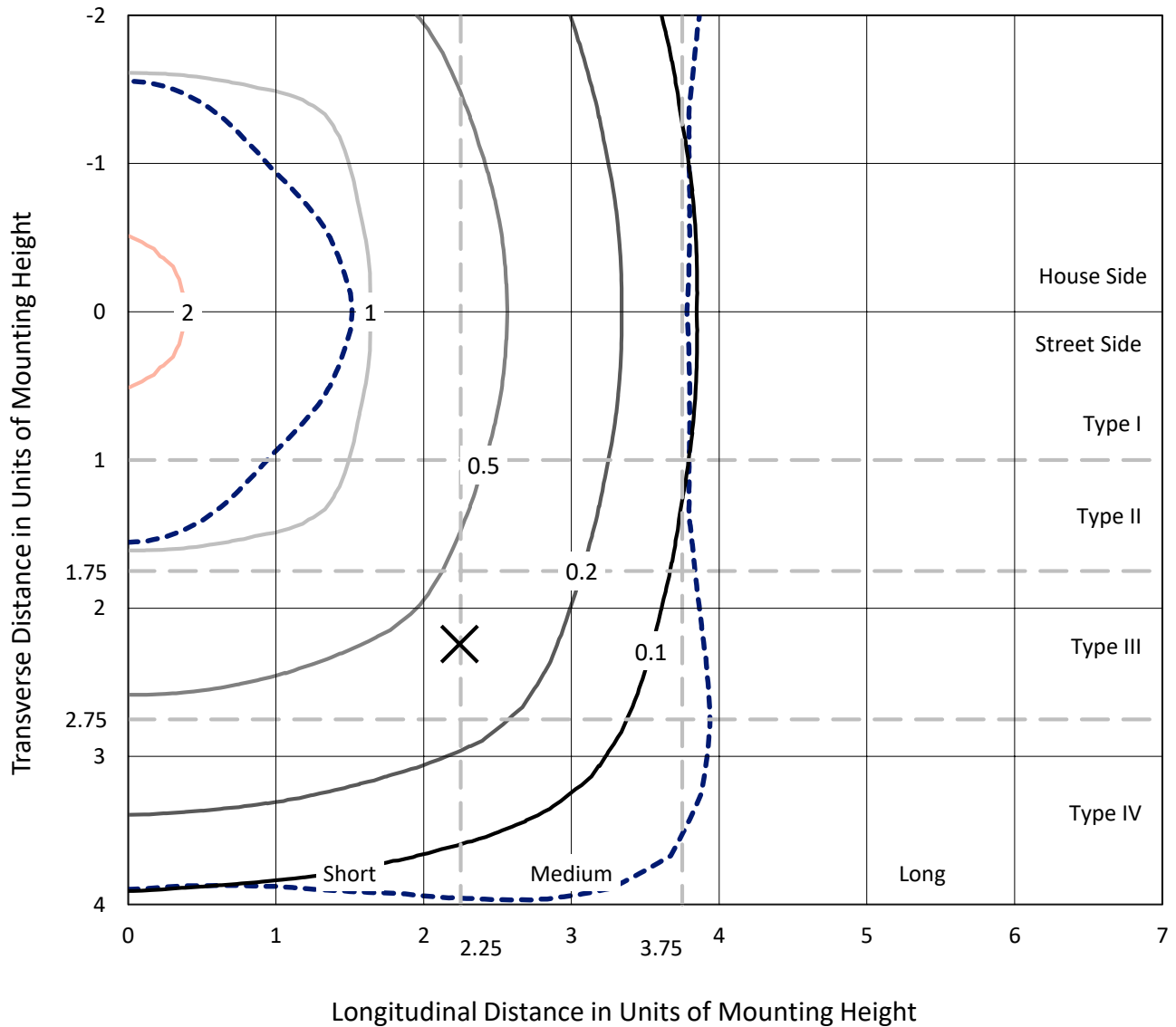


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

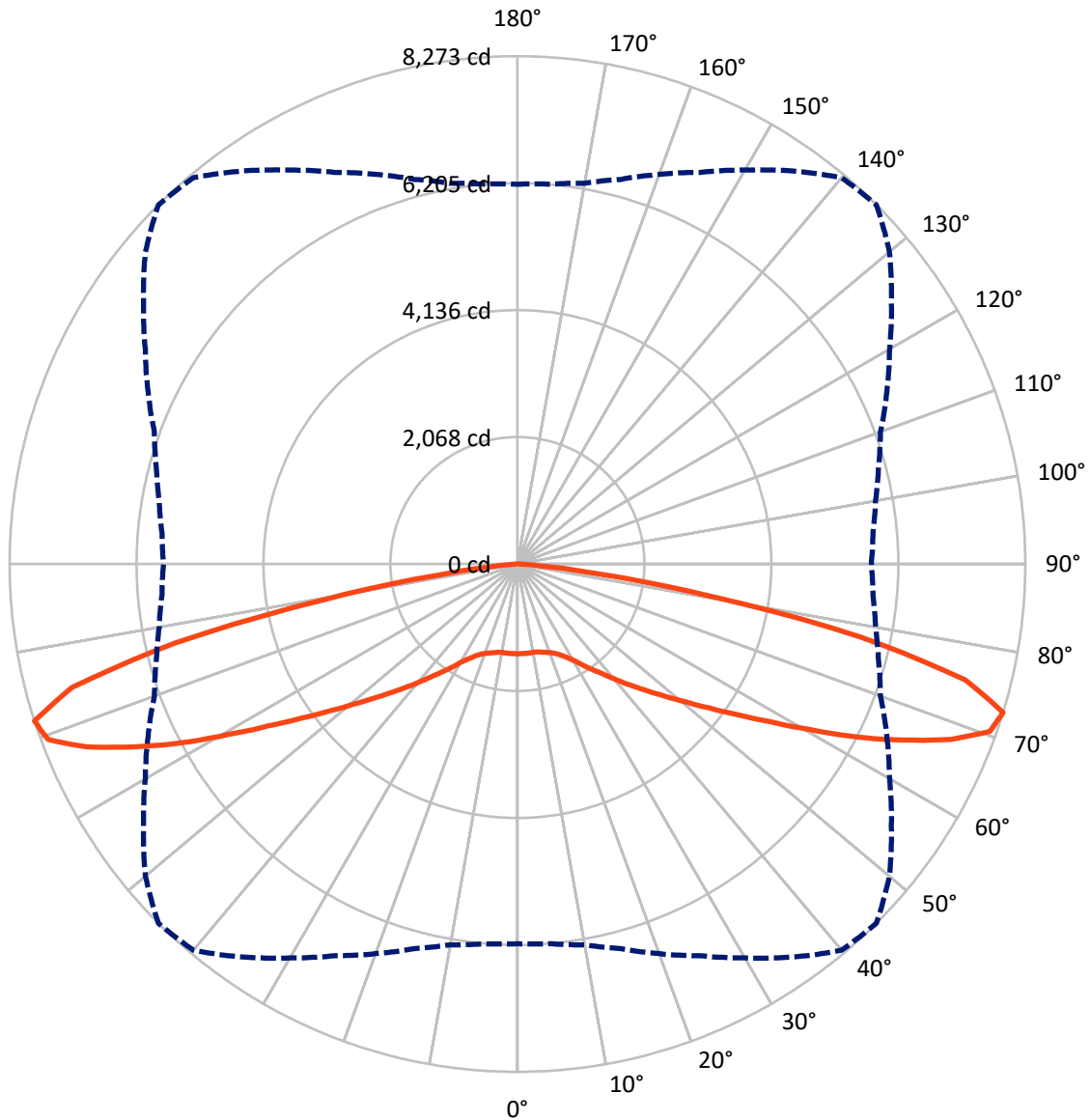


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

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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	10329.5	0.0	10329.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10329.5	0.0	10329.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20659.0	0.0	20659.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	0.7
10°-20°	424.3	2.1
20°-30°	775.3	3.8
30°-40°	1336.8	6.5
40°-50°	2285.2	11.1
50°-60°	3704.1	17.9
60°-70°	6144.9	29.7
70°-80°	5412.2	26.2
80°-90°	436.4	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°	20659.0	100.0
0°-180°	20659.0	100.0



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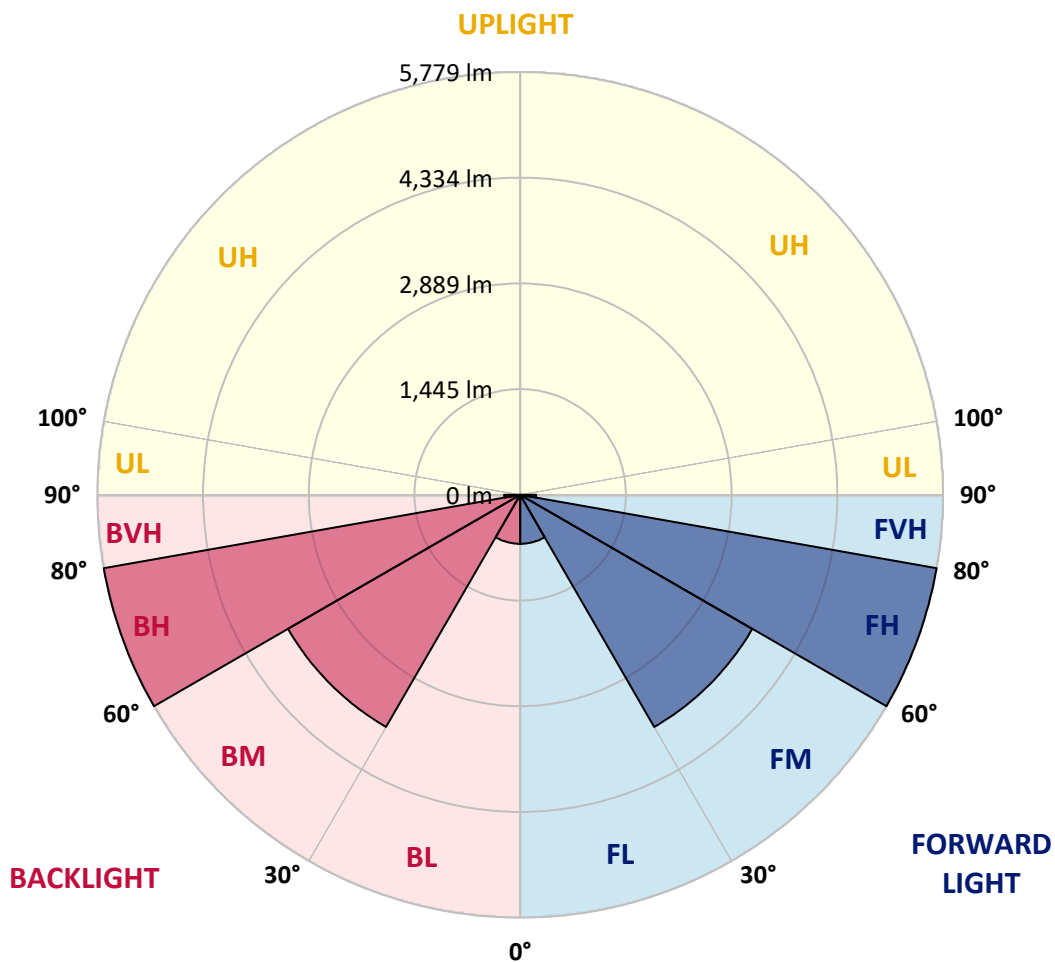
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	669.7	3.2			
FM (30°-60°)	3663.1	17.7			
FH (60°-80°)	5778.6	28.0			G3/7500
FVH (80°-90°)	218.2	1.1			G2/225
BL (0°-30°)	669.7	3.2	B2/1000		
BM (30°-60°)	3663.1	17.7	B3/5000		
BH (60°-80°)	5778.6	28.0	B5		G3/7500
BVH (80°-90°)	218.2	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°	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0
2.5°	1463.0	1463.9	1464.9	1463.9	1463.9	1463.0	1462.0	1463.0	1462.0	1460.1	1461.1
5°	1467.7	1469.6	1469.6	1467.7	1468.7	1467.7	1465.8	1466.8	1464.9	1462.0	1462.0
7.5°	1473.4	1474.3	1474.3	1472.5	1473.4	1471.5	1469.6	1468.7	1466.8	1463.0	1460.1
10°	1481.9	1482.9	1481.9	1480.0	1480.0	1477.2	1472.5	1470.6	1466.8	1461.1	1458.2
12.5°	1491.4	1492.4	1491.4	1489.5	1488.6	1483.8	1480.0	1477.2	1474.3	1469.6	1464.9
15°	1504.7	1506.6	1504.7	1500.9	1498.0	1494.2	1492.4	1493.3	1494.2	1490.5	1485.7
17.5°	1529.3	1530.3	1527.4	1518.9	1515.1	1511.3	1511.3	1513.2	1516.0	1514.1	1509.4
20°	1574.8	1571.9	1565.3	1554.9	1550.2	1543.5	1542.6	1543.5	1543.5	1542.6	1538.8
22.5°	1631.6	1629.7	1621.2	1607.9	1601.3	1597.5	1591.8	1587.1	1586.2	1583.3	1579.5
25°	1699.9	1698.9	1688.5	1677.1	1672.4	1667.6	1662.9	1656.3	1650.6	1644.0	1640.2
27.5°	1787.0	1783.2	1768.1	1762.4	1755.8	1752.9	1746.3	1738.7	1734.0	1725.4	1720.7
30°	1882.7	1882.7	1870.4	1868.5	1868.5	1861.9	1854.3	1841.0	1832.5	1824.0	1821.1
32.5°	1978.4	1979.4	1967.1	1970.9	1973.7	1978.4	1980.3	1975.6	1969.9	1969.0	1963.3
35°	2116.8	2113.0	2100.7	2103.5	2102.6	2101.6	2101.6	2112.0	2113.9	2115.8	2104.5
37.5°	2288.3	2288.3	2276.0	2276.0	2270.3	2264.6	2257.0	2263.6	2274.1	2276.9	2269.3
40°	2484.4	2491.0	2475.9	2474.9	2476.8	2458.8	2450.3	2460.7	2467.4	2478.7	2470.2
42.5°	2715.6	2710.9	2695.7	2693.8	2683.4	2677.7	2670.1	2678.7	2689.1	2696.7	2699.5
45°	2937.3	2933.5	2916.5	2916.5	2906.1	2901.3	2905.1	2919.3	2924.1	2934.5	2944.9
47.5°	3156.2	3151.5	3140.1	3144.8	3145.8	3154.3	3166.6	3179.9	3193.2	3207.4	3212.1
50°	3379.8	3380.8	3368.5	3379.8	3394.0	3417.7	3450.9	3472.7	3500.2	3518.2	3523.8
52.5°	3583.5	3587.3	3600.6	3627.1	3655.6	3702.0	3758.8	3811.9	3857.4	3887.7	3885.8
55°	3828.0	3833.7	3865.9	3911.4	3957.8	4027.9	4112.3	4206.1	4281.9	4325.5	4298.0
57.5°	4140.7	4153.0	4189.0	4250.6	4319.8	4410.7	4526.3	4667.5	4785.0	4843.7	4799.2
60°	4569.9	4577.5	4621.1	4689.3	4772.7	4885.4	5039.9	5229.4	5395.2	5472.9	5421.7
62.5°	5135.6	5149.8	5184.9	5254.0	5339.3	5467.2	5655.8	5892.7	6099.2	6207.2	6091.6
65°	5811.2	5856.7	5886.0	5956.1	6035.7	6171.2	6368.3	6622.3	6844.0	6915.0	6781.4
67.5°	6480.1	6519.9	6571.1	6651.6	6732.2	6884.7	7067.6	7313.9	7557.5	7621.9	7414.4
70°	6772.9	6795.6	6875.2	6985.2	7139.6	7319.6	7530.9	7807.6	8108.9	8162.0	7898.6
72.5°	6186.4	6209.1	6298.2	6484.9	6754.0	7040.1	7408.7	7815.2	8213.1	8272.8	7909.9
75°	4678.9	4641.9	4773.6	5020.9	5383.8	5782.7	6298.2	6880.9	7456.1	7530.9	7097.9
77.5°	2418.1	2413.3	2512.8	2819.8	3252.9	3706.7	4274.3	4932.8	5495.6	5723.0	5370.6
80°	681.3	688.9	736.2	888.8	1141.8	1469.6	1913.1	2529.9	2990.4	3225.4	3028.3
82.5°	267.2	288.0	306.1	334.5	367.6	416.0	555.2	826.2	1108.6	1324.6	1084.9
85°	95.7	102.3	145.0	171.5	174.3	183.8	209.4	244.5	294.7	351.5	289.0
87.5°	36.0	39.8	46.4	76.7	75.8	69.2	84.3	88.1	66.3	60.6	74.9
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°	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0
2.5°	1459.2	1460.1	1460.1	1461.1	1462.0	1462.0	1463.9	1463.9
5°	1460.1	1460.1	1458.2	1459.2	1458.2	1458.2	1459.2	1459.2
7.5°	1458.2	1457.3	1455.4	1454.5	1452.6	1452.6	1452.6	1452.6
10°	1455.4	1454.5	1452.6	1451.6	1450.7	1450.7	1450.7	1450.7
12.5°	1463.0	1460.1	1458.2	1457.3	1457.3	1457.3	1457.3	1457.3
15°	1482.9	1476.2	1471.5	1471.5	1472.5	1474.3	1474.3	1476.2
17.5°	1507.5	1499.9	1495.2	1491.4	1493.3	1496.1	1498.0	1499.9
20°	1536.9	1533.1	1526.5	1522.7	1522.7	1526.5	1528.4	1529.3
22.5°	1577.6	1574.8	1571.9	1567.2	1567.2	1569.1	1572.9	1572.9
25°	1638.3	1636.4	1634.5	1630.7	1629.7	1629.7	1631.6	1633.5
27.5°	1714.1	1715.0	1713.1	1712.2	1709.3	1708.4	1711.2	1710.3
30°	1815.5	1820.2	1824.9	1821.1	1816.4	1813.6	1810.7	1806.9
32.5°	1952.8	1947.2	1943.4	1936.7	1928.2	1920.6	1914.9	1908.3
35°	2082.7	2073.2	2069.4	2075.1	2074.1	2069.4	2062.8	2057.1
37.5°	2241.8	2239.9	2241.8	2252.3	2250.4	2255.1	2241.8	2240.9
40°	2442.7	2444.6	2457.9	2470.2	2476.8	2483.5	2475.9	2468.3
42.5°	2675.8	2674.9	2679.6	2696.7	2708.0	2715.6	2699.5	2697.6
45°	2922.2	2915.5	2919.3	2933.5	2944.9	2953.4	2935.4	2935.4
47.5°	3193.2	3181.8	3169.5	3185.6	3192.2	3197.9	3183.7	3178.9
50°	3495.4	3471.7	3445.2	3451.8	3451.8	3449.9	3431.9	3431.0
52.5°	3842.2	3798.6	3750.3	3732.3	3721.9	3710.5	3679.2	3664.1
55°	4241.1	4175.7	4099.9	4053.5	4028.9	3997.6	3945.5	3931.3
57.5°	4707.3	4605.0	4474.2	4417.4	4362.4	4311.2	4253.4	4237.3
60°	5259.7	5109.1	4935.7	4830.5	4770.8	4721.5	4661.8	4659.0
62.5°	5875.6	5637.8	5441.6	5346.9	5303.3	5259.7	5202.9	5210.4
65°	6501.9	6253.7	6069.8	5993.1	5952.4	5916.3	5859.5	5868.0
67.5°	7119.7	6891.3	6689.5	6610.9	6565.4	6519.9	6468.8	6477.3
70°	7563.1	7279.8	7052.4	6878.1	6769.1	6645.9	6566.3	6546.4
72.5°	7436.2	6999.4	6638.4	6292.5	6089.7	5924.9	5813.1	5764.7
75°	6435.6	5838.6	5374.4	4949.9	4711.1	4516.9	4375.7	4287.5
77.5°	4779.3	4108.5	3559.9	3070.9	2684.3	2424.7	2241.8	2123.4
80°	2616.1	1989.8	1454.5	1022.4	751.4	624.4	551.5	516.4
82.5°	814.9	525.9	387.5	334.5	310.8	297.5	275.7	240.7
85°	259.6	227.4	211.3	201.8	192.3	167.7	115.6	105.2
87.5°	100.4	103.3	102.3	96.6	98.5	71.1	56.9	50.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)