

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: P269209

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269209
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 21973.4 lumens
Efficiency: N/A
Efficacy: 97.7 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

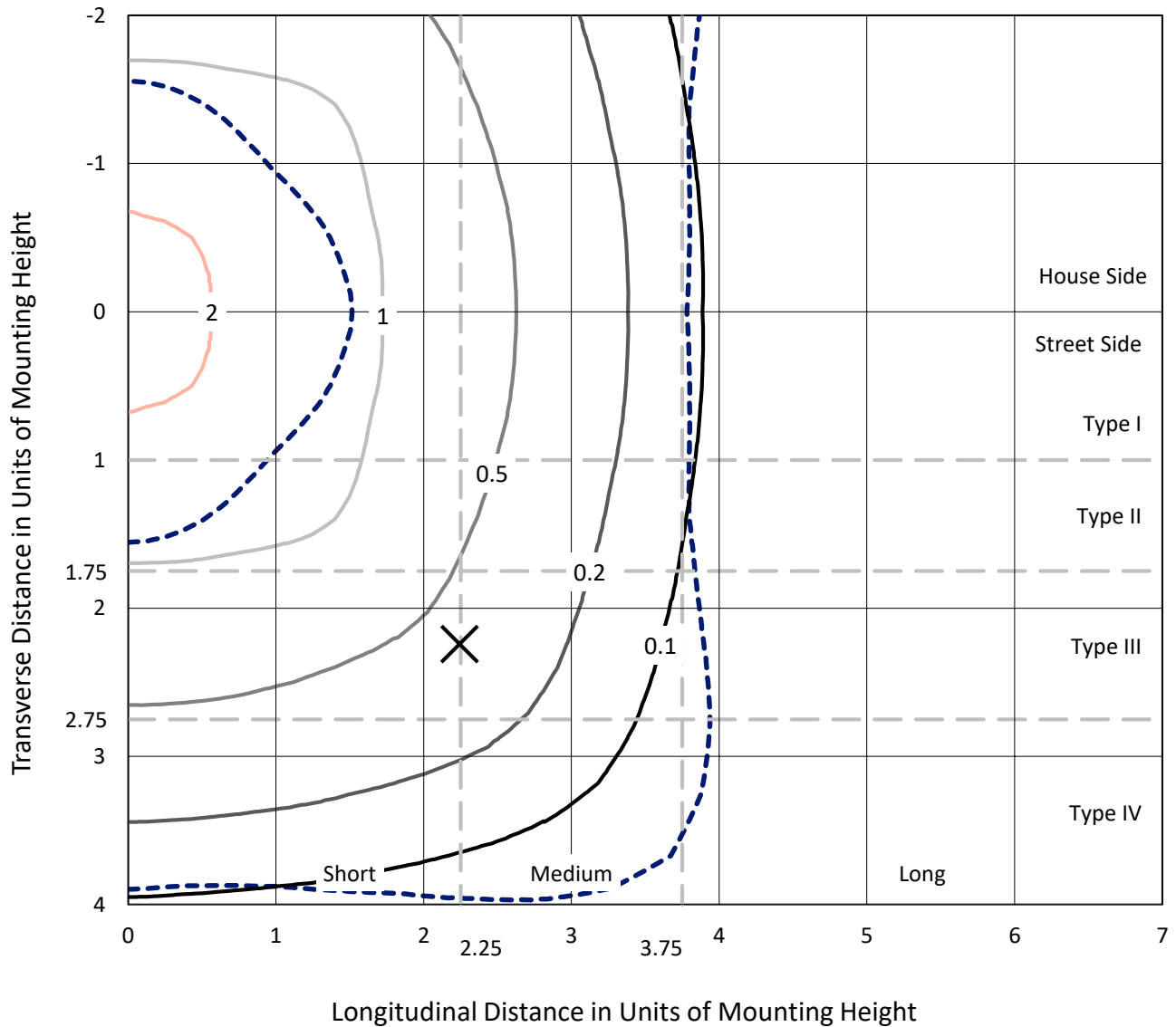


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Iso-Footcandle Lines of Horizontal Illumination

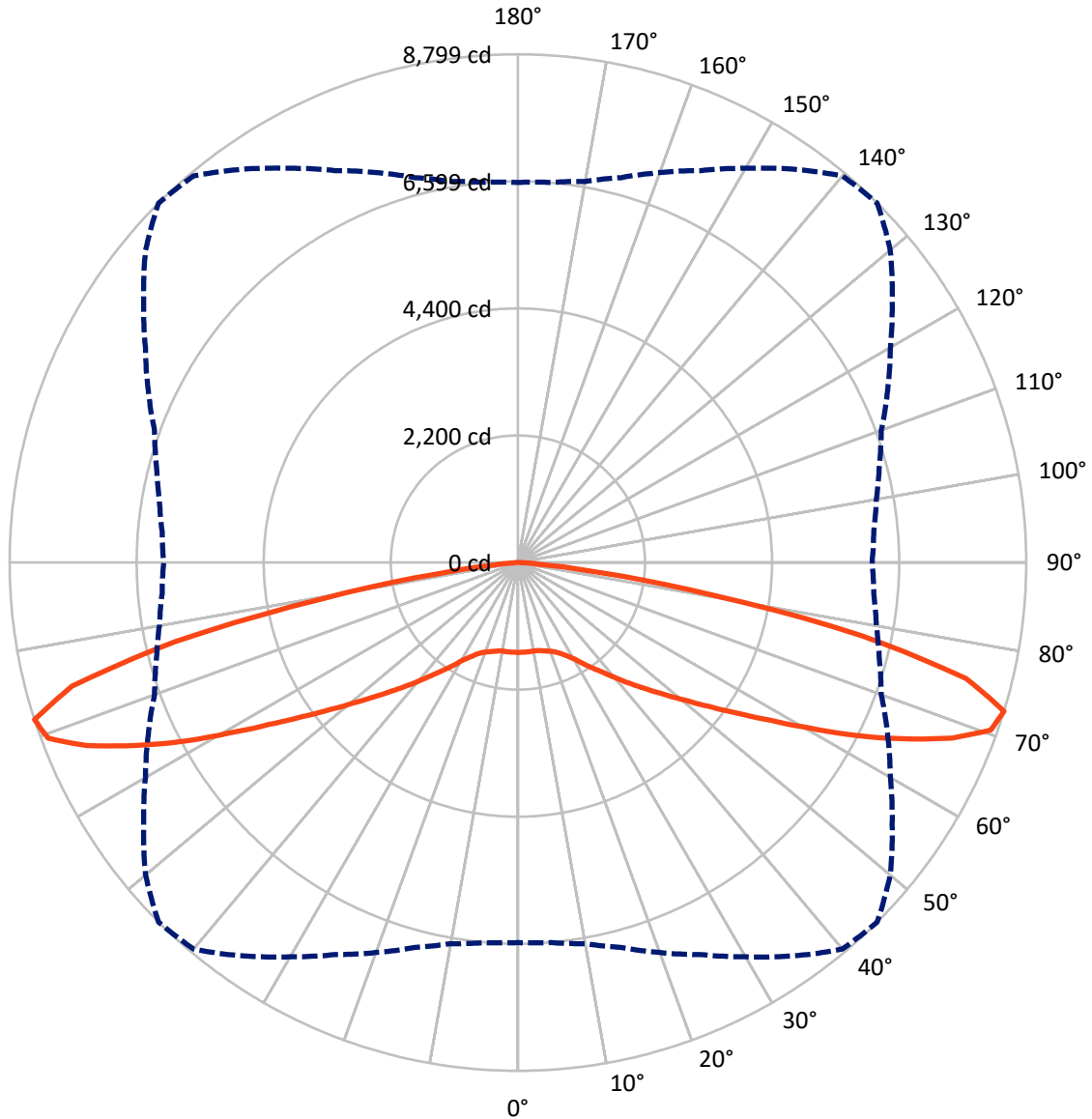
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	10986.7	0.0	10986.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10986.7	0.0	10986.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	21973.4	0.0	21973.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	0.7
10°-20°	451.3	2.1
20°-30°	824.7	3.8
30°-40°	1421.9	6.5
40°-50°	2430.6	11.1
50°-60°	3939.8	17.9
60°-70°	6535.9	29.7
70°-80°	5756.6	26.2
80°-90°	464.1	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°	21973.4	100.0
0°-180°	21973.4	100.0



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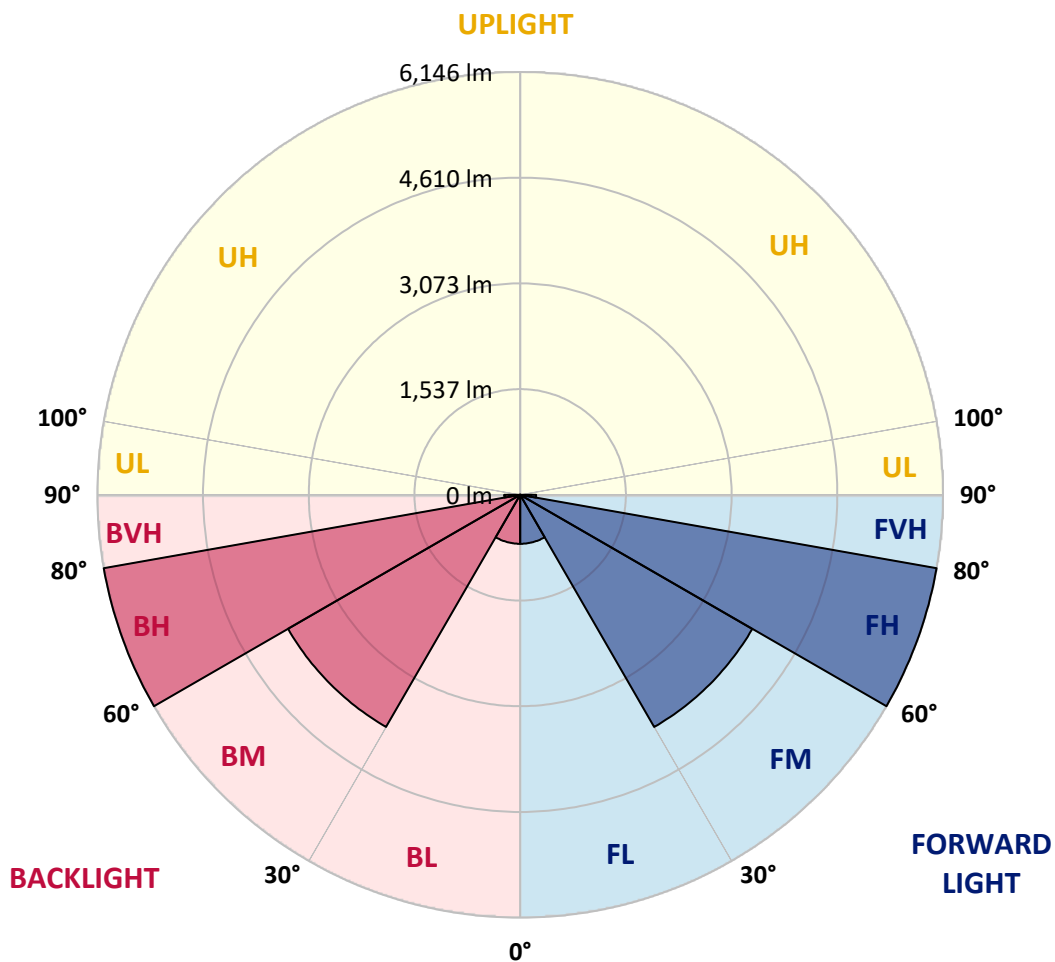
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	712.3	3.2			
FM	(30°-60°)	3896.1	17.7			
FH	(60°-80°)	6146.2	28.0			G3/7500
FVH	(80°-90°)	232.1	1.1			G3/500
BL	(0°-30°)	712.3	3.2	B2/1000		
BM	(30°-60°)	3896.1	17.7	B3/5000		
BH	(60°-80°)	6146.2	28.0	B5		G3/7500
BVH	(80°-90°)	232.1	1.1			G3/500
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°	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0
2.5°	1556.0	1557.0	1558.1	1557.0	1557.0	1556.0	1555.1	1556.0	1555.1	1553.0	1554.1
5°	1561.2	1563.1	1563.1	1561.2	1562.2	1561.2	1559.1	1560.0	1558.1	1555.1	1555.1
7.5°	1567.2	1568.1	1568.1	1566.1	1567.2	1565.1	1563.1	1562.2	1560.0	1556.0	1553.0
10°	1576.3	1577.2	1576.3	1574.2	1574.2	1571.1	1566.1	1564.0	1560.0	1554.1	1551.1
12.5°	1586.2	1587.2	1586.2	1584.3	1583.3	1578.2	1574.2	1571.1	1568.1	1563.1	1558.1
15°	1600.4	1602.4	1600.4	1596.4	1593.4	1589.3	1587.2	1588.4	1589.3	1585.2	1580.3
17.5°	1626.7	1627.5	1624.6	1615.5	1611.5	1607.4	1607.4	1609.5	1612.5	1610.5	1605.5
20°	1675.0	1671.9	1664.9	1653.8	1648.7	1641.7	1640.8	1641.7	1641.7	1640.8	1636.7
22.5°	1735.4	1733.4	1724.3	1710.3	1703.1	1699.1	1693.1	1688.1	1687.0	1684.1	1680.0
25°	1808.0	1807.0	1795.9	1783.9	1778.7	1773.8	1768.8	1761.7	1755.6	1748.6	1744.5
27.5°	1900.8	1896.7	1880.6	1874.6	1867.4	1864.4	1857.3	1849.3	1844.3	1835.1	1830.1
30°	2002.5	2002.5	1989.4	1987.4	1987.4	1980.4	1972.3	1958.1	1949.1	1940.0	1937.0
32.5°	2104.3	2105.3	2092.2	2096.3	2099.2	2104.3	2106.3	2101.2	2095.2	2094.2	2088.2
35°	2251.4	2247.4	2234.4	2237.4	2236.3	2235.3	2235.3	2246.4	2248.4	2250.4	2238.3
37.5°	2433.9	2433.9	2420.8	2420.8	2414.7	2408.6	2400.6	2407.6	2418.7	2421.8	2413.7
40°	2642.5	2649.6	2633.4	2632.5	2634.4	2615.2	2606.3	2617.3	2624.4	2636.4	2627.4
42.5°	2888.4	2883.3	2867.2	2865.2	2854.2	2848.0	2840.0	2849.1	2860.2	2868.2	2871.3
45°	3124.2	3120.3	3102.0	3102.0	3091.0	3085.9	3089.9	3105.0	3110.1	3121.3	3132.3
47.5°	3357.1	3351.9	3339.9	3344.8	3345.9	3355.0	3368.0	3382.2	3396.3	3411.5	3416.4
50°	3594.8	3595.8	3582.8	3594.8	3610.0	3635.3	3670.5	3693.7	3722.8	3742.0	3748.1
52.5°	3811.6	3815.6	3829.7	3858.0	3888.1	3937.5	3997.9	4054.4	4102.7	4135.1	4133.0
55°	4071.6	4077.5	4111.8	4160.2	4209.5	4284.1	4373.8	4473.6	4554.2	4600.7	4571.5
57.5°	4404.1	4417.2	4455.6	4521.0	4594.7	4691.4	4814.2	4964.5	5089.4	5151.9	5104.6
60°	4860.6	4868.8	4915.0	4987.7	5076.3	5196.2	5360.5	5562.0	5738.5	5821.0	5766.7
62.5°	5462.4	5477.4	5514.8	5588.3	5679.1	5815.1	6015.6	6267.6	6487.3	6602.2	6479.2
65°	6180.9	6229.2	6260.5	6335.0	6419.7	6563.8	6773.5	7043.6	7279.4	7355.1	7212.9
67.5°	6892.4	6934.7	6989.2	7074.8	7160.5	7322.8	7517.2	7779.3	8038.4	8106.8	7886.1
70°	7203.8	7228.0	7312.7	7429.6	7593.8	7785.3	8010.0	8304.3	8624.8	8681.3	8401.0
72.5°	6579.9	6604.2	6698.9	6897.5	7183.7	7488.0	7880.0	8312.5	8735.7	8799.2	8413.2
75°	4976.6	4937.3	5077.3	5340.3	5726.3	6150.6	6698.9	7318.8	7930.4	8010.0	7549.4
77.5°	2571.9	2566.8	2672.6	2999.3	3459.8	3942.5	4546.2	5246.7	5845.4	6087.2	5712.2
80°	724.7	732.7	783.1	945.3	1214.4	1563.1	2034.8	2690.9	3180.7	3430.5	3221.0
82.5°	284.3	306.4	325.5	355.8	391.0	442.4	590.5	878.8	1179.1	1408.9	1154.0
85°	101.8	108.9	154.1	182.4	185.4	195.6	222.7	260.0	313.4	374.0	307.4
87.5°	38.3	42.3	49.3	81.7	80.6	73.7	89.7	93.8	70.5	64.5	79.6
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°	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0
2.5°	1552.0	1553.0	1553.0	1554.1	1555.1	1555.1	1557.0	1557.0
5°	1553.0	1553.0	1551.1	1552.0	1551.1	1551.1	1552.0	1552.0
7.5°	1551.1	1550.0	1548.0	1547.1	1544.9	1544.9	1544.9	1544.9
10°	1548.0	1547.1	1544.9	1543.9	1543.0	1543.0	1543.0	1543.0
12.5°	1556.0	1553.0	1551.1	1550.0	1550.0	1550.0	1550.0	1550.0
15°	1577.2	1570.1	1565.1	1565.1	1566.1	1568.1	1568.1	1570.1
17.5°	1603.5	1595.4	1590.3	1586.2	1588.4	1591.3	1593.4	1595.4
20°	1634.6	1630.7	1623.5	1619.6	1619.6	1623.5	1625.7	1626.7
22.5°	1678.0	1675.0	1671.9	1667.0	1667.0	1669.0	1673.0	1673.0
25°	1742.5	1740.5	1738.5	1734.4	1733.4	1733.4	1735.4	1737.4
27.5°	1823.1	1824.2	1822.1	1821.1	1818.1	1817.1	1820.1	1819.1
30°	1930.9	1935.9	1941.1	1937.0	1932.0	1928.9	1926.0	1922.0
32.5°	2077.2	2071.0	2067.0	2060.0	2050.9	2042.8	2036.7	2029.7
35°	2215.2	2205.1	2201.0	2207.0	2206.1	2201.0	2194.0	2187.9
37.5°	2384.6	2382.5	2384.6	2395.6	2393.5	2398.6	2384.6	2383.5
40°	2598.2	2600.1	2614.2	2627.4	2634.4	2641.5	2633.4	2625.3
42.5°	2846.1	2845.0	2850.1	2868.2	2880.3	2888.4	2871.3	2869.2
45°	3108.0	3100.9	3105.0	3120.3	3132.3	3141.4	3122.1	3122.1
47.5°	3396.3	3384.3	3371.1	3388.2	3395.4	3401.3	3386.3	3381.2
50°	3717.8	3692.7	3664.4	3671.5	3671.5	3669.4	3650.4	3649.3
52.5°	4086.7	4040.2	3989.0	3969.8	3958.7	3946.6	3913.3	3897.1
55°	4511.0	4441.4	4360.8	4311.4	4285.3	4251.9	4196.5	4181.4
57.5°	5006.9	4898.0	4759.0	4698.4	4639.9	4585.6	4524.0	4506.9
60°	5594.4	5434.0	5249.6	5137.9	5074.3	5022.0	4958.5	4955.4
62.5°	6249.4	5996.5	5787.9	5687.1	5640.6	5594.4	5533.9	5542.0
65°	6915.6	6651.5	6455.9	6374.5	6331.1	6292.7	6232.4	6241.3
67.5°	7572.7	7329.8	7115.1	7031.6	6983.2	6934.7	6880.3	6889.5
70°	8044.3	7743.0	7501.1	7315.6	7199.7	7068.9	6984.1	6962.9
72.5°	7909.2	7444.8	7060.7	6692.8	6477.1	6301.8	6182.9	6131.6
75°	6845.1	6210.2	5716.4	5264.7	5010.8	4804.2	4654.1	4560.3
77.5°	5083.4	4369.9	3786.4	3266.2	2855.2	2578.9	2384.6	2258.5
80°	2782.6	2116.3	1547.1	1087.4	799.2	664.1	586.6	549.3
82.5°	866.8	559.4	412.2	355.8	330.5	316.5	293.2	255.9
85°	276.1	241.9	224.8	214.7	204.5	178.4	123.0	111.8
87.5°	106.8	109.9	108.9	102.8	104.8	75.5	60.5	53.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)