

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: P193381

Luminaire Tested: **GLEON-AF-03-LED-E1-5NQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-5NQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12358 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 124
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

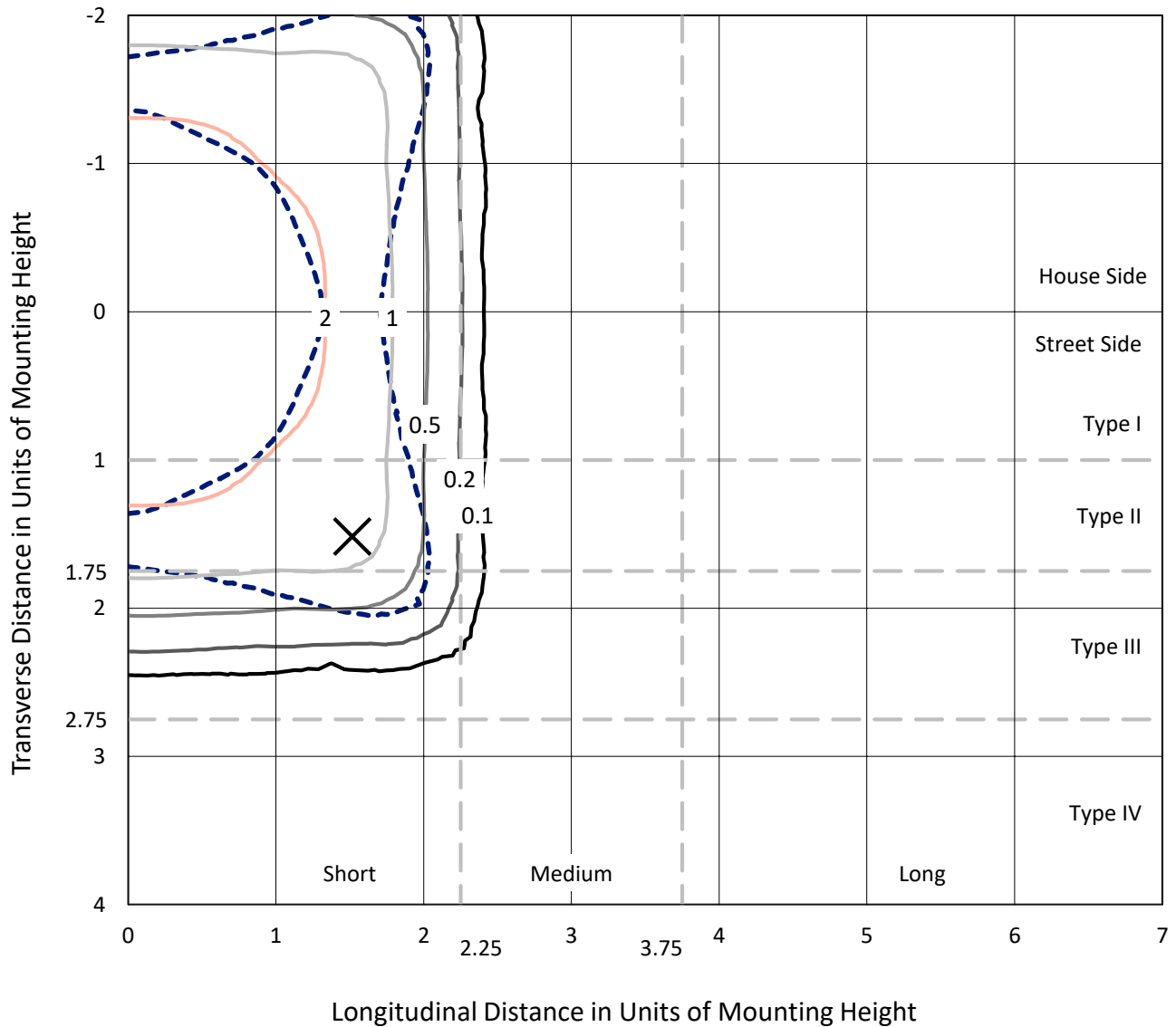


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

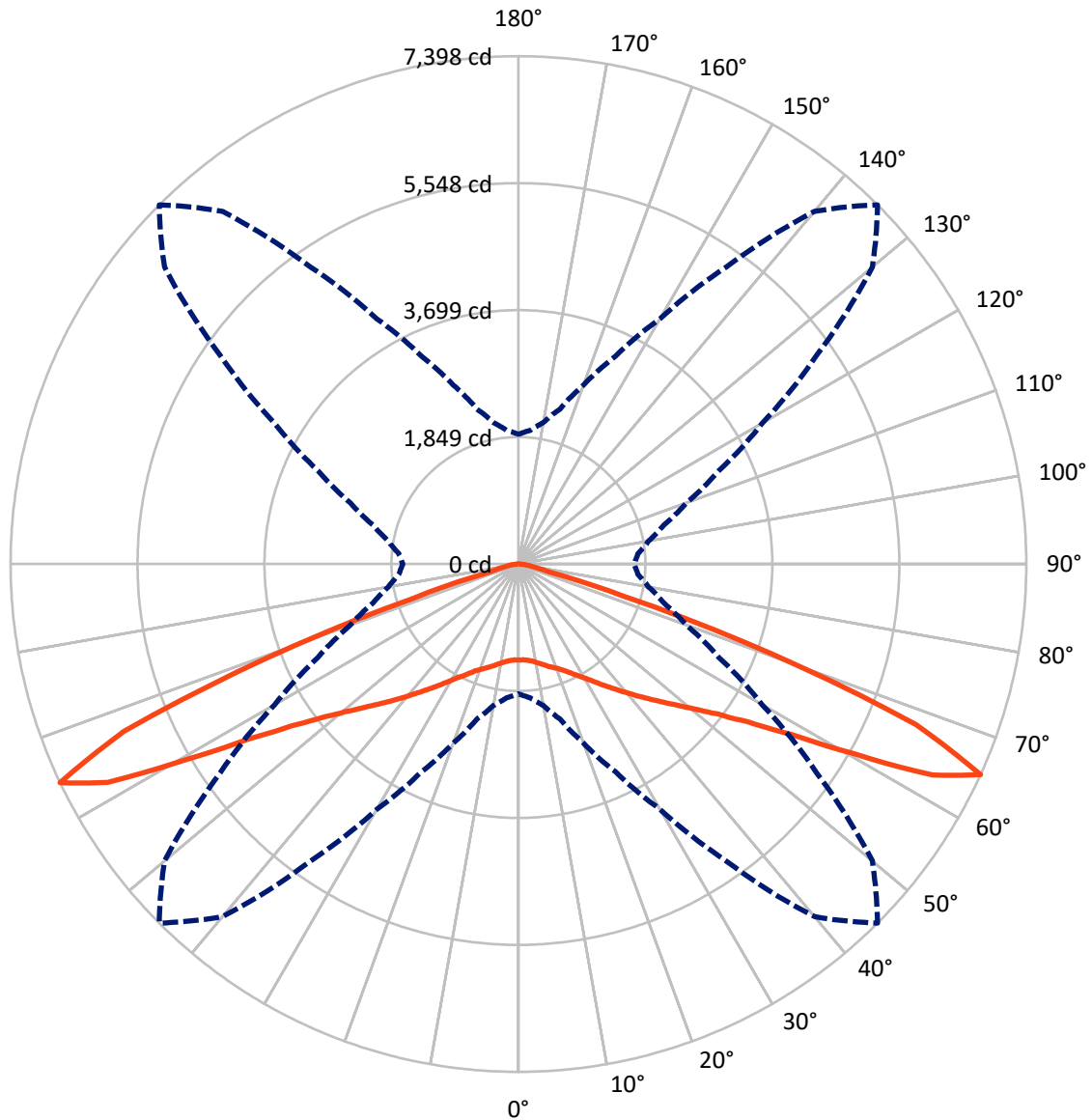


Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6179.0	0.0	6179.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6179.0	0.0	6179.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12358.0	0.0	12358.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	1.1
10°-20°	437.1	3.5
20°-30°	817.3	6.6
30°-40°	1382.3	11.2
40°-50°	2260.2	18.3
50°-60°	3594.1	29.1
60°-70°	3248.8	26.3
70°-80°	411.2	3.3
80°-90°	70.7	0.6
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°	12358.0	100.0
0°-180°	12358.0	100.0



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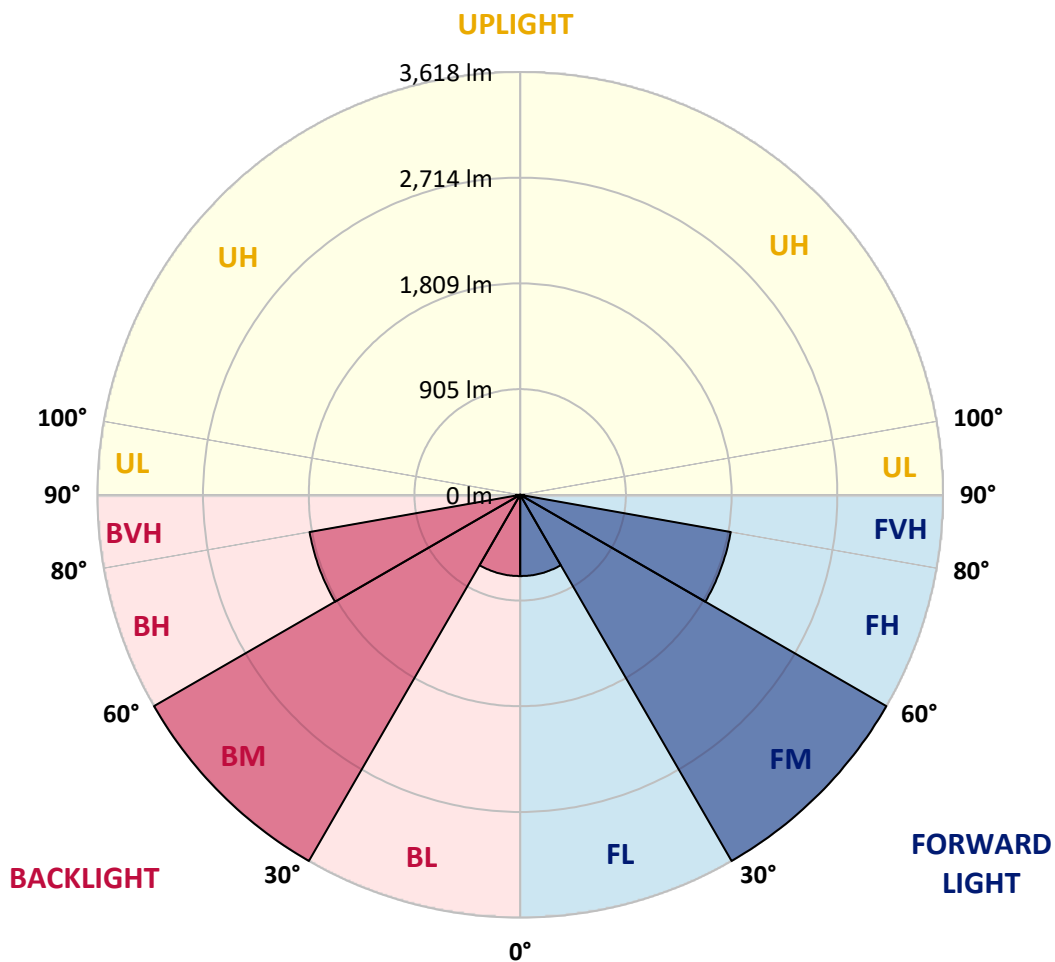
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	695.4	5.6			
FM	(30°-60°)	3618.3	29.3			
FH	(60°-80°)	1830.0	14.8			G2/5000
FVH	(80°-90°)	35.4	0.3			G1/100
BL	(0°-30°)	695.4	5.6	B2/1000		
BM	(30°-60°)	3618.3	29.3	B3/5000		
BH	(60°-80°)	1830.0	14.8	B3/2500		G2/5000
BVH	(80°-90°)	35.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3
2.5°	1399.5	1400.6	1401.8	1400.6	1401.8	1400.1	1398.9	1400.6	1398.9	1397.2	1398.3
5°	1411.6	1412.2	1412.2	1410.5	1412.2	1411.0	1409.3	1411.6	1409.9	1408.2	1409.3
7.5°	1431.9	1434.2	1432.5	1430.7	1431.9	1430.7	1429.6	1430.1	1429.6	1427.8	1428.4
10°	1459.1	1460.8	1459.7	1459.1	1460.2	1459.7	1458.5	1457.9	1458.5	1456.8	1456.8
12.5°	1492.1	1491.5	1490.9	1491.5	1493.2	1493.2	1492.7	1493.2	1494.4	1495.0	1493.8
15°	1524.5	1525.6	1525.6	1525.6	1529.1	1532.0	1533.7	1534.9	1537.2	1537.8	1535.5
17.5°	1565.0	1565.0	1564.4	1565.0	1568.5	1573.1	1574.8	1577.2	1579.5	1581.2	1578.3
20°	1610.1	1611.3	1611.3	1612.5	1617.1	1622.3	1622.3	1623.5	1622.3	1623.5	1621.7
22.5°	1665.1	1668.6	1668.6	1669.2	1673.8	1680.2	1678.4	1680.2	1677.3	1679.6	1677.3
25°	1736.9	1742.1	1740.9	1740.9	1744.4	1748.5	1749.1	1752.5	1751.9	1754.8	1753.1
27.5°	1817.9	1826.0	1828.3	1827.8	1830.1	1834.1	1835.3	1839.3	1837.0	1839.3	1838.2
30°	1915.2	1918.6	1923.3	1925.0	1927.9	1931.9	1931.9	1932.5	1929.6	1933.1	1934.8
32.5°	2015.9	2022.2	2026.9	2037.3	2042.5	2045.4	2044.8	2046.0	2043.1	2047.7	2051.2
35°	2149.0	2153.6	2161.1	2169.2	2176.2	2175.6	2173.9	2174.4	2174.4	2178.5	2182.0
37.5°	2309.3	2310.5	2320.3	2331.9	2335.3	2331.9	2321.5	2319.1	2313.9	2319.1	2324.9
40°	2478.9	2482.9	2502.6	2510.1	2511.9	2505.5	2490.5	2481.8	2470.2	2476.6	2484.7
42.5°	2656.6	2664.7	2682.6	2695.9	2701.7	2697.7	2676.8	2663.5	2648.5	2651.9	2660.0
45°	2853.3	2863.2	2888.7	2901.4	2912.4	2906.0	2885.8	2865.5	2841.8	2843.5	2856.2
47.5°	3073.3	3083.1	3116.1	3137.5	3143.3	3142.2	3119.6	3091.8	3059.4	3058.2	3069.2
50°	3319.8	3329.7	3370.8	3403.8	3420.5	3418.8	3392.2	3352.8	3313.5	3314.1	3327.9
52.5°	3560.6	3572.8	3615.6	3672.3	3705.3	3729.0	3712.8	3675.8	3627.7	3628.9	3641.6
55°	3786.3	3806.6	3855.8	3932.8	3994.1	4060.7	4079.8	4078.6	4049.7	4057.8	4070.5
57.5°	3895.7	3925.8	4001.6	4123.2	4248.2	4383.6	4498.2	4583.9	4620.3	4675.3	4662.6
60°	3688.5	3736.6	3848.3	4027.1	4274.2	4556.7	4859.4	5155.1	5407.5	5597.9	5488.5
62.5°	3020.0	3082.5	3218.0	3447.2	3821.1	4273.1	4852.4	5551.6	6313.3	6772.8	6444.6
65°	1889.7	1954.5	2092.3	2337.7	2775.2	3337.2	4123.2	5281.9	6705.1	7397.9	6730.0
67.5°	736.8	772.1	846.7	1003.6	1332.3	1832.4	2621.3	3936.2	5638.4	6245.5	5533.6
70°	369.3	372.7	386.6	415.6	486.2	631.4	960.8	1824.9	3233.6	3905.6	3117.3
72.5°	266.8	267.4	274.3	287.1	309.6	342.1	404.6	558.5	1051.6	1607.3	985.6
75°	204.3	206.6	210.7	217.6	229.8	246.0	268.6	321.8	398.8	462.4	388.9
77.5°	157.4	162.1	165.0	171.3	178.8	189.8	196.2	216.5	251.8	265.1	261.0
80°	119.8	123.9	130.2	135.4	140.6	145.9	143.5	152.8	171.3	182.3	176.5
82.5°	76.4	81.0	99.5	104.2	106.5	110.0	105.9	106.5	114.6	121.5	114.6
85°	49.2	52.1	63.1	68.9	69.5	71.8	70.0	66.0	66.0	60.2	67.7
87.5°	22.6	23.2	28.4	33.6	34.7	31.3	30.7	29.5	23.7	22.6	24.3
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°	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3
2.5°	1397.7	1398.9	1399.5	1401.2	1401.8	1401.8	1402.4	1403.5
5°	1408.7	1410.5	1411.0	1413.4	1413.9	1413.4	1414.5	1415.1
7.5°	1428.4	1431.3	1432.5	1434.8	1433.0	1435.4	1435.9	1435.9
10°	1457.3	1460.2	1460.8	1463.1	1462.0	1463.1	1463.1	1462.0
12.5°	1495.5	1496.1	1494.4	1496.1	1493.8	1495.0	1493.2	1492.1
15°	1537.8	1536.1	1532.0	1532.0	1528.5	1529.1	1528.5	1528.0
17.5°	1578.9	1575.4	1572.5	1571.4	1568.5	1567.9	1566.2	1566.2
20°	1624.0	1622.3	1620.6	1618.2	1615.4	1612.5	1611.9	1613.0
22.5°	1678.4	1677.9	1677.9	1676.7	1672.7	1669.8	1668.0	1668.0
25°	1751.4	1746.2	1746.2	1745.6	1743.8	1742.1	1738.6	1740.4
27.5°	1833.6	1830.7	1833.0	1832.4	1830.7	1830.7	1828.3	1828.3
30°	1934.8	1933.7	1937.2	1934.3	1928.5	1927.9	1925.6	1922.7
32.5°	2051.7	2050.6	2055.8	2052.3	2043.1	2037.9	2033.2	2030.9
35°	2182.0	2182.6	2188.9	2186.6	2176.2	2172.7	2164.6	2163.5
37.5°	2324.4	2333.6	2344.6	2346.9	2338.2	2335.9	2327.2	2322.6
40°	2491.6	2503.8	2520.6	2524.6	2515.3	2513.6	2501.5	2495.1
42.5°	2669.9	2690.7	2711.5	2715.0	2705.8	2696.5	2684.9	2680.3
45°	2869.0	2893.9	2921.1	2928.0	2914.1	2903.1	2888.1	2888.1
47.5°	3092.4	3123.6	3154.3	3173.4	3160.7	3149.1	3131.2	3119.6
50°	3356.3	3399.1	3439.1	3458.7	3438.5	3416.5	3385.2	3374.8
52.5°	3687.4	3733.7	3768.4	3758.0	3726.7	3696.0	3661.9	3648.0
55°	4109.9	4125.5	4125.5	4086.1	4023.6	3972.1	3918.3	3900.3
57.5°	4638.3	4578.1	4485.5	4368.0	4220.4	4091.9	4005.1	3964.0
60°	5259.3	4969.9	4642.9	4321.7	4057.8	3840.2	3711.1	3652.1
62.5°	5673.1	4916.1	4260.9	3745.2	3365.6	3103.4	2925.1	2855.7
65°	5302.1	4100.0	3222.6	2605.6	2191.8	1925.0	1748.5	1683.6
67.5°	3883.6	2569.2	1716.1	1229.9	901.1	718.8	646.5	616.4
70°	1743.3	904.6	554.5	432.9	373.3	342.6	329.3	324.7
72.5°	525.5	380.3	320.6	289.4	265.7	250.6	239.6	238.5
75°	317.2	263.9	234.4	215.9	200.8	188.7	182.9	181.2
77.5°	221.7	193.9	180.0	166.7	155.1	145.9	140.6	136.6
80°	155.7	142.4	136.0	128.5	121.0	112.3	104.8	101.3
82.5°	104.2	101.3	101.3	96.7	90.3	82.2	67.1	63.7
85°	67.1	66.6	67.7	66.0	61.3	52.7	43.4	41.1
87.5°	31.3	31.8	35.3	34.7	33.6	27.8	22.0	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)