

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: P193351

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15577 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

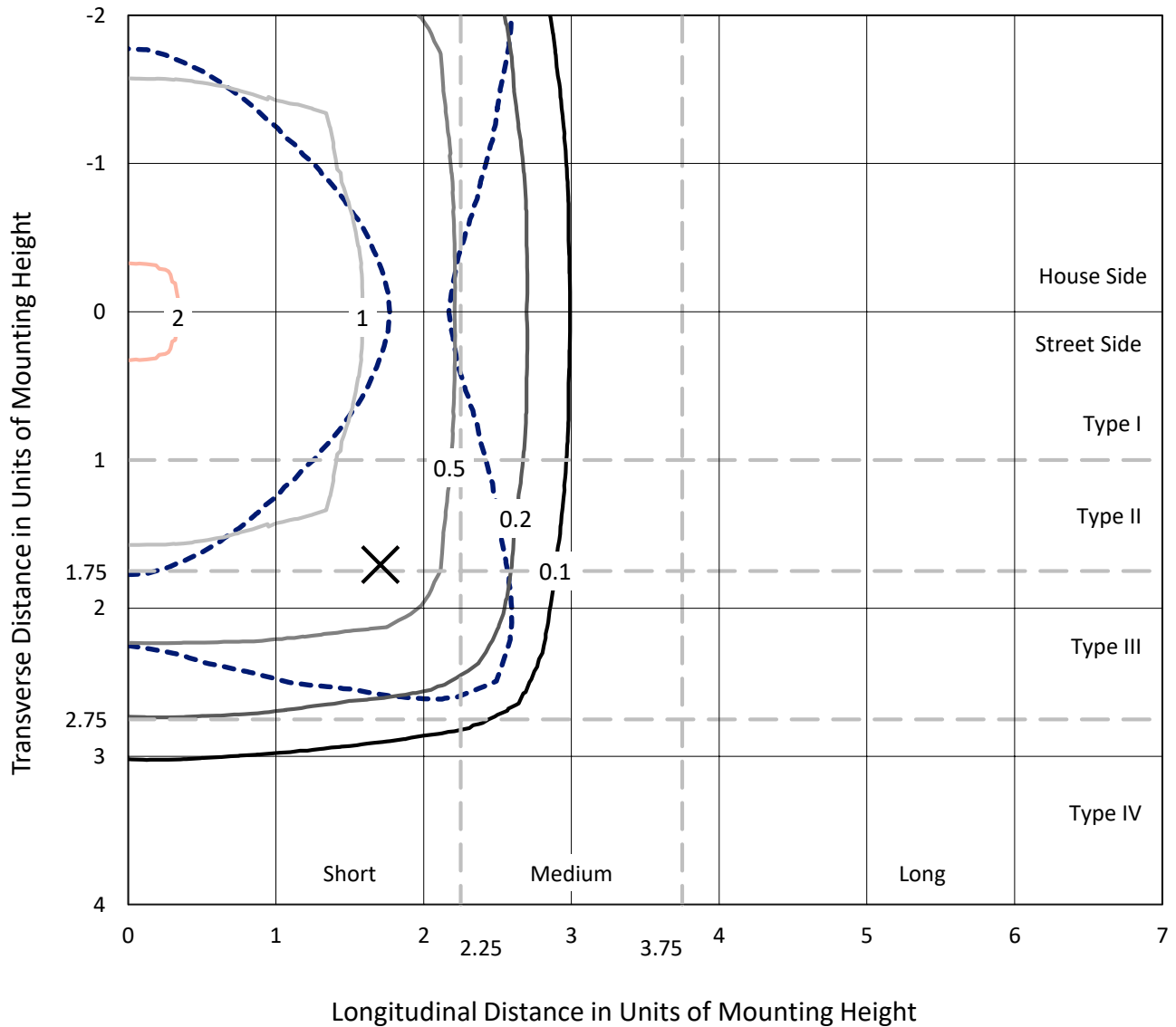
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

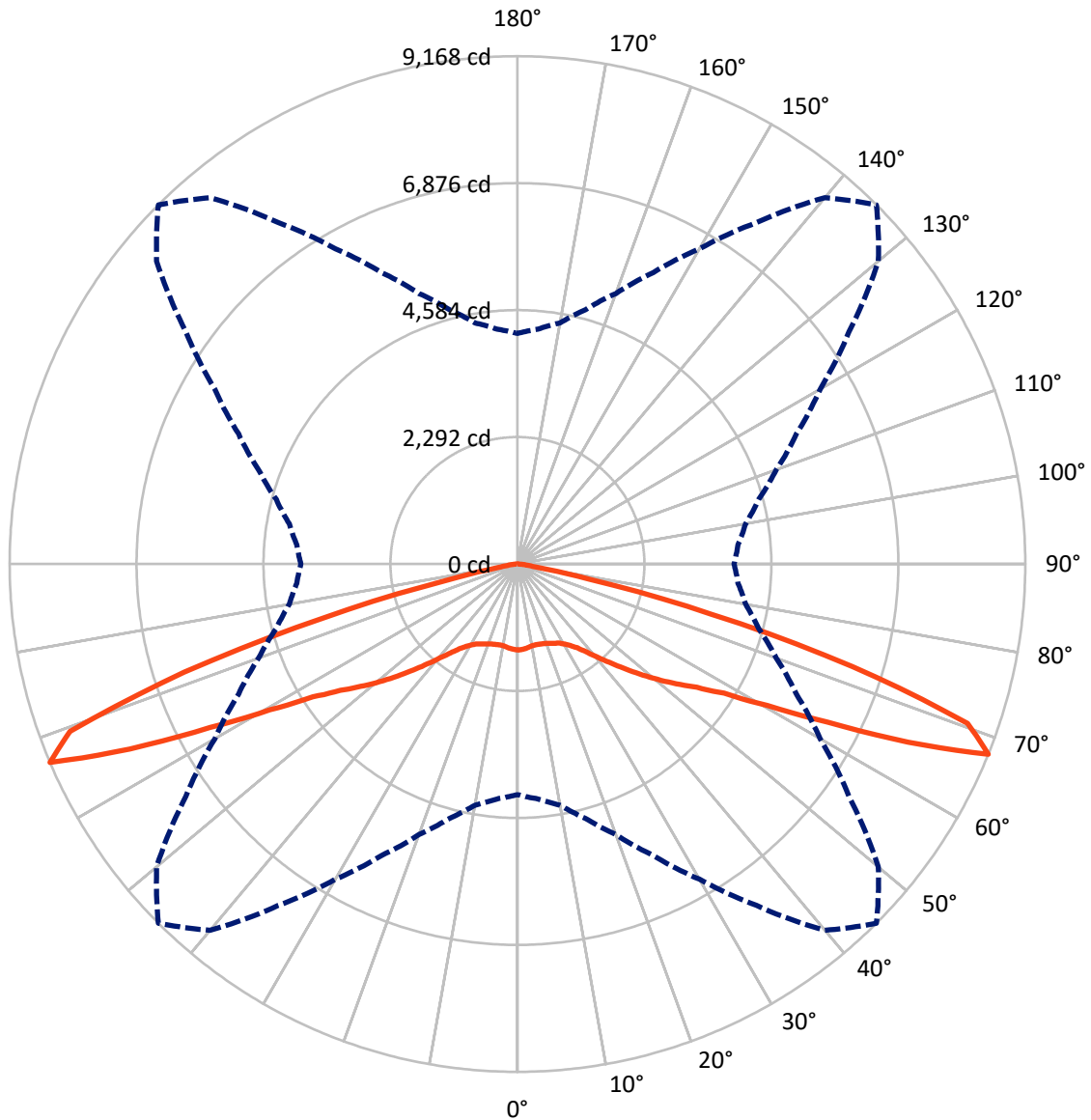
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7788.5	0.0	7788.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7788.5	0.0	7788.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15577.0	0.0	15577.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	0.9
10°-20°	421.6	2.7
20°-30°	716.7	4.6
30°-40°	1171.6	7.5
40°-50°	2091.5	13.4
50°-60°	3526.4	22.6
60°-70°	5472.4	35.1
70°-80°	1922.8	12.3
80°-90°	108.7	0.7
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°	15577.0	100.0
0°-180°	15577.0	100.0



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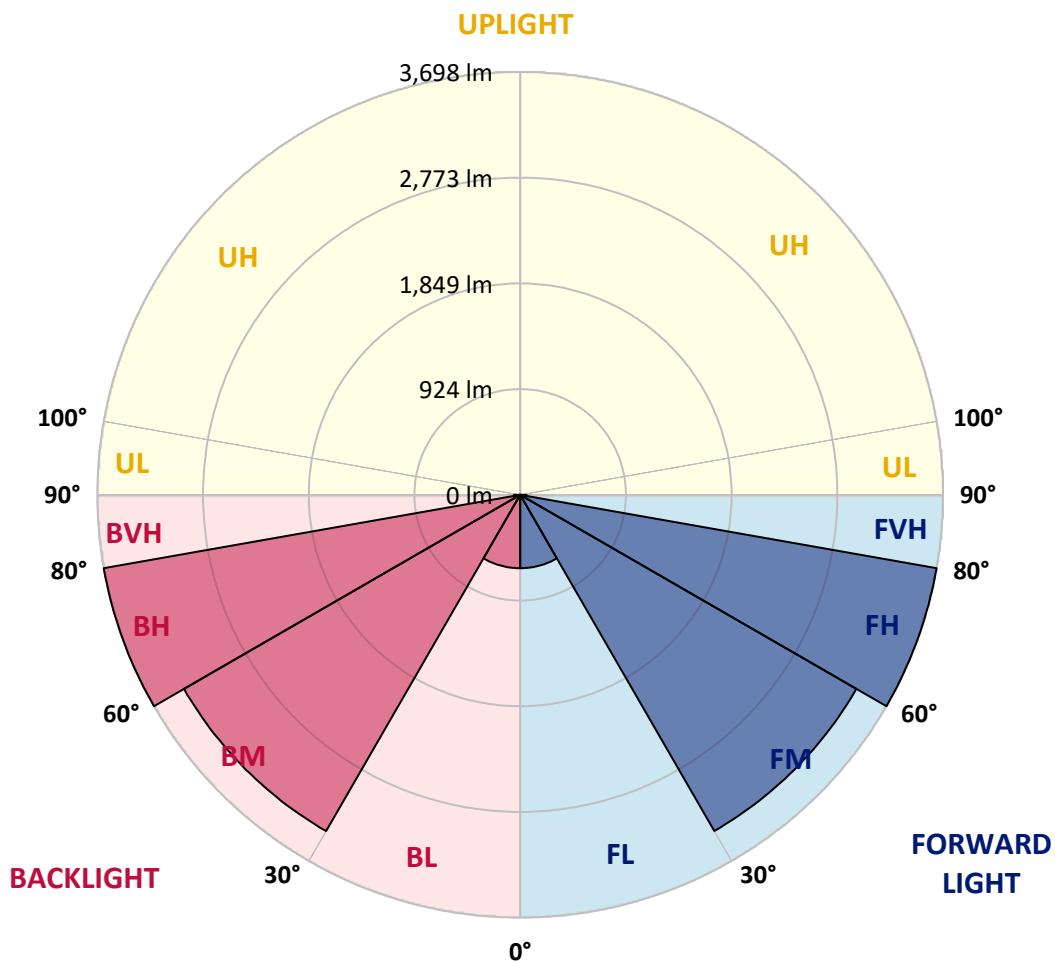
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	641.8	4.1			
FM	(30°-60°)	3394.8	21.8			
FH	(60°-80°)	3697.6	23.7			G2/5000
FVH	(80°-90°)	54.3	0.3			G1/100
BL	(0°-30°)	641.8	4.1	B2/1000		
BM	(30°-60°)	3394.8	21.8	B3/5000		
BH	(60°-80°)	3697.6	23.7	B4/5000		G2/5000
BVH	(80°-90°)	54.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3
2.5°	1546.6	1548.0	1548.0	1548.0	1547.3	1547.3	1545.9	1547.3	1546.6	1544.4	1545.2
5°	1533.7	1535.1	1535.1	1534.4	1536.6	1535.8	1533.7	1535.1	1534.4	1533.0	1533.7
7.5°	1515.1	1517.2	1517.2	1516.5	1518.6	1517.9	1516.5	1517.2	1517.2	1515.1	1515.1
10°	1494.3	1495.7	1495.7	1495.0	1498.6	1498.6	1497.9	1500.0	1500.7	1498.6	1497.2
12.5°	1474.9	1477.1	1477.1	1480.0	1483.5	1485.0	1488.6	1491.4	1494.3	1493.6	1490.7
15°	1463.5	1464.9	1467.8	1471.4	1477.1	1482.1	1487.8	1494.3	1500.0	1501.5	1497.2
17.5°	1456.3	1458.5	1462.8	1467.8	1475.7	1484.3	1492.9	1501.5	1509.3	1512.2	1507.2
20°	1454.2	1455.6	1459.9	1468.5	1479.2	1492.1	1504.3	1514.3	1525.1	1528.7	1525.1
22.5°	1458.5	1461.3	1466.4	1476.4	1490.7	1507.2	1521.5	1535.1	1548.7	1555.2	1550.2
25°	1477.8	1480.7	1487.1	1500.0	1515.8	1533.0	1549.4	1565.2	1577.4	1583.8	1580.3
27.5°	1513.6	1517.2	1525.1	1538.0	1555.2	1573.8	1591.7	1604.6	1614.6	1616.8	1612.5
30°	1567.4	1575.2	1584.5	1598.9	1618.9	1634.7	1652.6	1664.1	1676.2	1676.2	1672.7
32.5°	1651.2	1659.0	1669.1	1682.7	1698.4	1715.6	1731.4	1741.4	1754.3	1755.0	1746.4
35°	1776.5	1780.1	1788.7	1797.3	1811.6	1826.7	1840.3	1846.7	1857.5	1858.2	1850.3
37.5°	1942.0	1942.7	1948.5	1951.3	1964.2	1980.7	1993.6	1997.9	2007.9	2006.5	1998.6
40°	2134.7	2138.3	2140.4	2144.7	2158.3	2174.1	2187.7	2189.9	2200.6	2198.5	2188.4
42.5°	2357.5	2358.9	2371.1	2377.5	2390.4	2398.3	2415.5	2417.7	2430.5	2424.8	2413.4
45°	2607.5	2620.4	2631.8	2644.7	2658.3	2667.7	2681.3	2678.4	2687.0	2678.4	2672.0
47.5°	2870.4	2879.7	2905.5	2925.5	2947.7	2955.6	2975.0	2966.4	2975.0	2962.8	2960.6
50°	3159.8	3176.3	3198.5	3221.4	3245.0	3257.9	3283.0	3272.3	3283.7	3272.3	3265.8
52.5°	3444.9	3449.2	3497.9	3531.6	3564.5	3579.6	3594.6	3589.6	3590.3	3589.6	3583.1
55°	3715.7	3725.7	3774.4	3820.3	3877.6	3919.8	3945.6	3942.7	3936.3	3929.9	3919.1
57.5°	4020.8	4030.9	4086.7	4143.3	4208.5	4268.7	4321.0	4374.7	4395.5	4401.2	4377.6
60°	4433.4	4432.7	4507.2	4576.0	4669.1	4758.7	4873.3	4990.0	5124.0	5186.3	5103.9
62.5°	4853.2	4870.4	4977.9	5099.6	5291.6	5478.6	5689.9	5897.6	6109.7	6282.3	6098.9
65°	4803.1	4869.0	5028.7	5304.5	5659.1	6080.3	6535.9	7018.0	7453.5	7753.0	7417.0
67.5°	4162.7	4256.5	4419.1	4754.4	5197.8	5805.2	6570.3	7523.7	8631.9	9167.7	8503.7
70°	3017.2	3123.3	3293.7	3621.1	4060.2	4637.6	5468.6	6613.3	8080.3	8620.5	7889.1
72.5°	1501.5	1558.8	1664.1	1872.5	2204.9	2673.4	3427.0	4527.3	5825.3	6321.0	5652.7
75°	510.0	536.5	554.4	622.5	727.8	911.9	1286.6	1979.3	3019.4	3619.7	2976.4
77.5°	294.4	295.1	307.3	319.5	337.4	357.5	407.6	535.1	925.5	1314.5	957.7
80°	190.5	189.8	199.9	209.2	221.3	231.4	234.2	247.9	285.8	338.8	303.0
82.5°	98.9	111.0	133.2	145.4	168.3	172.6	166.9	161.9	171.2	177.7	182.0
85°	54.4	47.3	70.9	91.7	101.7	103.2	103.2	97.4	101.0	98.9	107.5
87.5°	25.1	22.9	27.9	45.1	48.0	40.8	43.0	38.0	27.2	26.5	30.1
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°	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3
2.5°	1545.2	1545.9	1545.9	1548.0	1548.7	1550.2	1551.6	1552.3
5°	1533.0	1535.1	1533.7	1535.8	1535.8	1537.3	1537.3	1538.0
7.5°	1515.1	1517.2	1517.2	1517.2	1516.5	1518.6	1518.6	1518.6
10°	1496.4	1497.9	1497.2	1495.7	1494.3	1496.4	1495.7	1495.0
12.5°	1490.7	1487.1	1484.3	1482.8	1480.0	1480.7	1478.5	1478.5
15°	1494.3	1487.8	1482.8	1480.7	1477.8	1476.4	1474.9	1475.7
17.5°	1503.6	1495.7	1489.3	1485.7	1482.1	1480.0	1477.1	1477.8
20°	1520.1	1510.8	1501.5	1494.3	1487.8	1484.3	1482.1	1481.4
22.5°	1544.4	1530.8	1517.2	1506.5	1497.9	1492.9	1490.7	1489.3
25°	1572.4	1557.3	1541.6	1529.4	1520.8	1514.3	1510.0	1510.0
27.5°	1607.5	1595.3	1581.0	1566.6	1558.8	1552.3	1549.4	1548.0
30°	1666.2	1654.8	1643.3	1629.7	1619.6	1613.2	1608.2	1603.9
32.5°	1741.4	1732.1	1722.8	1712.8	1703.5	1694.9	1687.0	1683.4
35°	1847.4	1840.3	1833.8	1822.4	1818.8	1813.8	1809.5	1805.9
37.5°	1993.6	1990.7	1990.7	1978.5	1975.7	1973.5	1969.2	1969.9
40°	2185.6	2188.4	2184.8	2180.5	2178.4	2172.7	2172.7	2177.7
42.5°	2412.6	2414.8	2422.7	2415.5	2423.4	2416.2	2411.9	2415.5
45°	2676.3	2684.1	2699.9	2692.7	2697.7	2685.6	2670.5	2671.2
47.5°	2972.1	2979.3	2985.7	2980.7	2981.4	2961.4	2941.3	2936.3
50°	3279.4	3282.3	3285.9	3278.7	3280.1	3257.9	3235.0	3235.7
52.5°	3583.1	3596.8	3611.1	3591.7	3587.4	3562.4	3530.1	3517.2
55°	3930.6	3949.9	3933.4	3899.8	3866.1	3832.4	3790.2	3783.0
57.5°	4358.9	4326.0	4274.4	4210.7	4164.1	4116.8	4073.8	4055.9
60°	4954.9	4831.0	4737.9	4643.3	4583.9	4525.9	4469.3	4460.7
62.5°	5797.4	5583.2	5397.6	5202.1	5042.3	4917.7	4818.1	4790.2
65°	6853.2	6346.8	5907.7	5497.9	5141.9	4873.3	4704.2	4629.7
67.5°	7307.4	6307.4	5554.5	4972.8	4507.2	4182.0	3999.3	3908.4
70°	6421.3	5230.7	4412.0	3829.6	3405.5	3058.8	2893.3	2795.9
72.5°	4417.7	3327.4	2631.1	2147.6	1808.8	1518.6	1404.0	1395.4
75°	1983.6	1313.8	905.5	697.7	587.4	510.8	487.1	469.2
77.5°	555.2	410.5	366.1	342.4	319.5	293.0	283.0	285.1
80°	270.1	255.0	245.0	229.9	209.2	187.0	176.9	181.2
82.5°	179.1	176.9	183.4	172.6	142.6	121.1	101.7	93.1
85°	108.9	110.3	112.5	113.2	96.0	67.3	45.8	51.6
87.5°	43.0	49.4	53.7	55.9	52.3	32.2	25.8	26.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)