

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: P192741

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14516.2 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

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



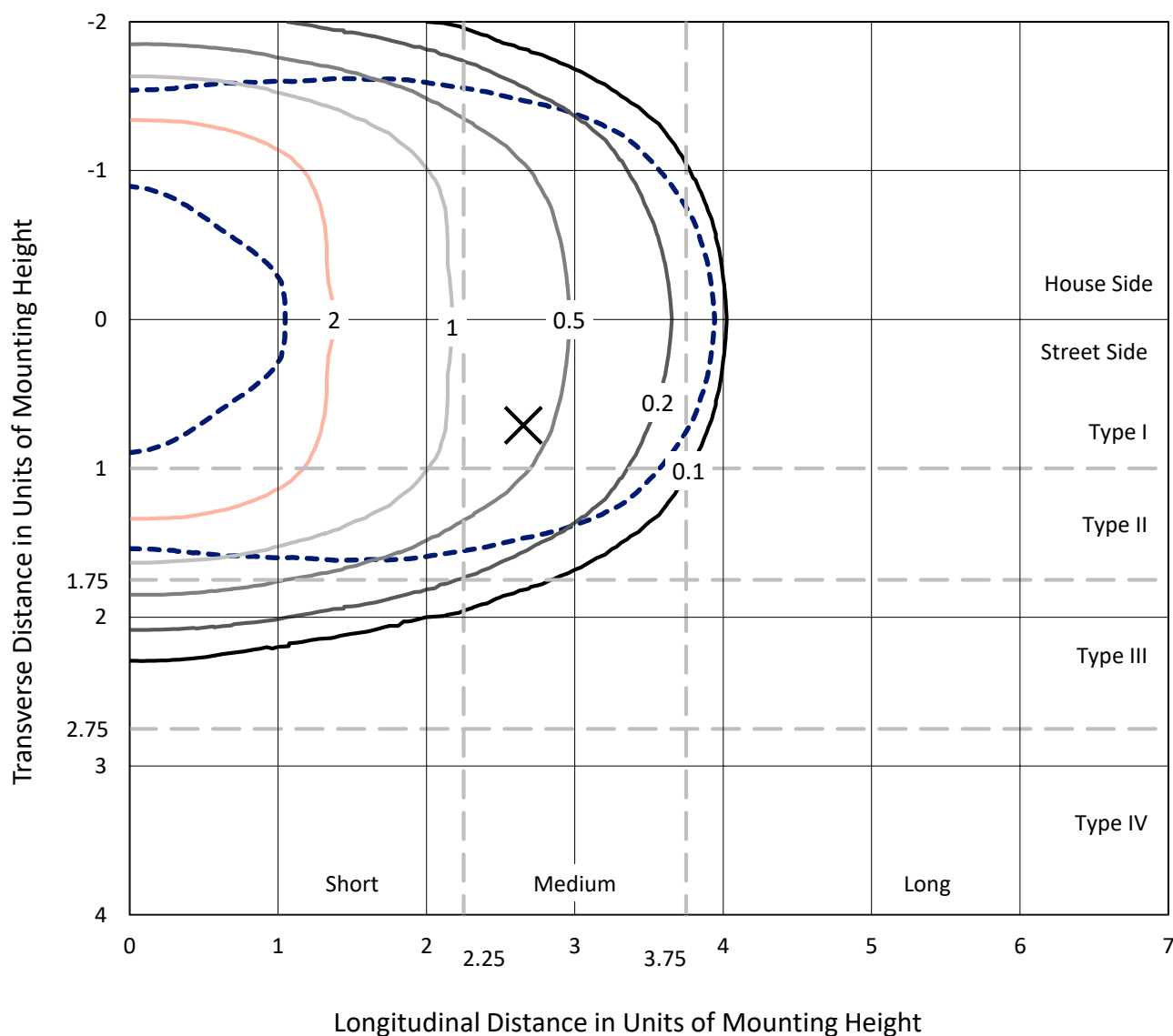
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

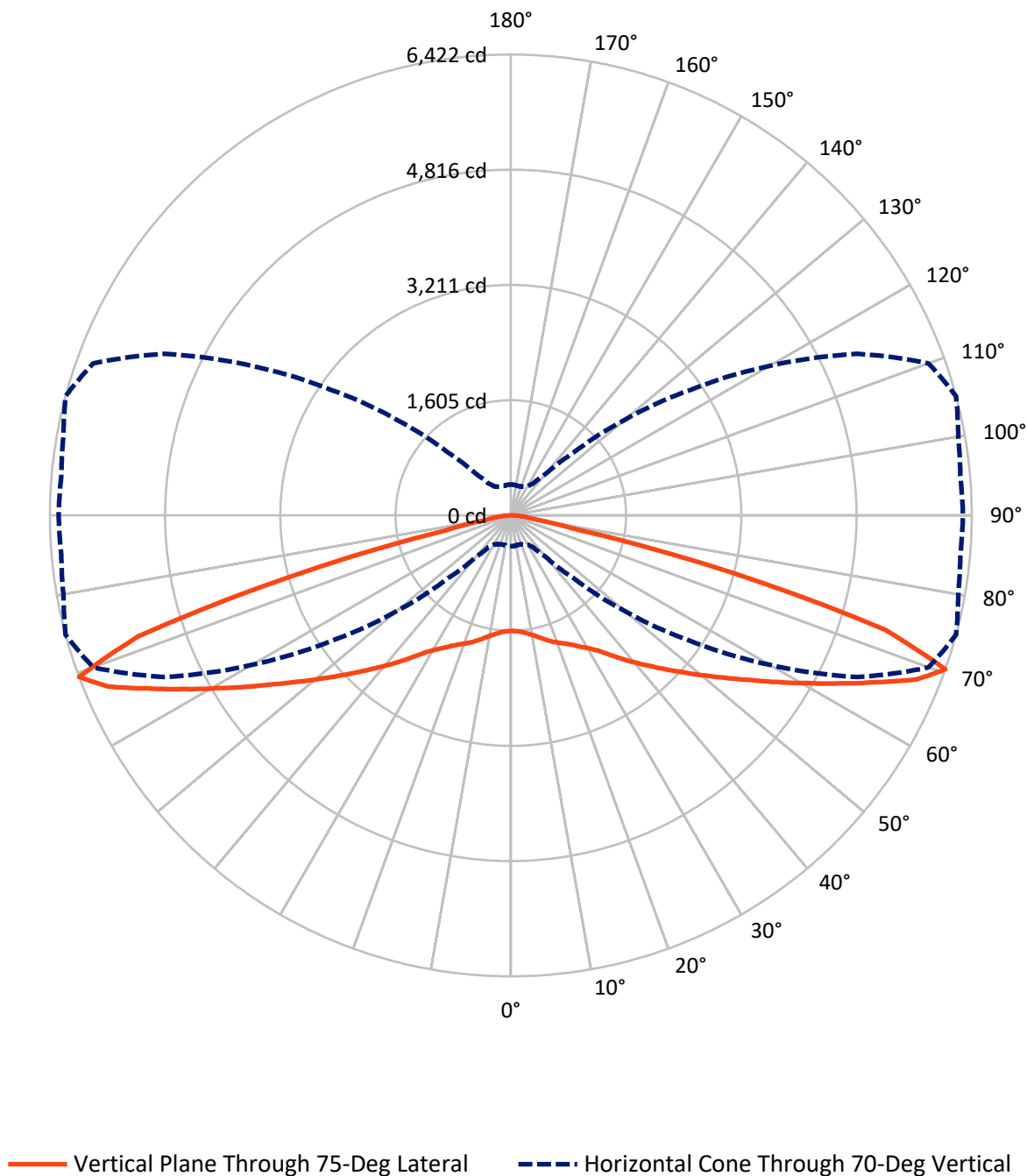


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7258.1	0.0	7258.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7258.1	0.0	7258.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	14516.2	0.0	14516.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	1.1
10°-20°	479.8	3.3
20°-30°	903.1	6.2
30°-40°	1599.3	11.0
40°-50°	2674.5	18.4
50°-60°	3726.9	25.7
60°-70°	3456.1	23.8
70°-80°	1377.4	9.5
80°-90°	144.8	1.0
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°	14516.2	100.0
0°-180°	14516.2	100.0

Coefficient of Utilization



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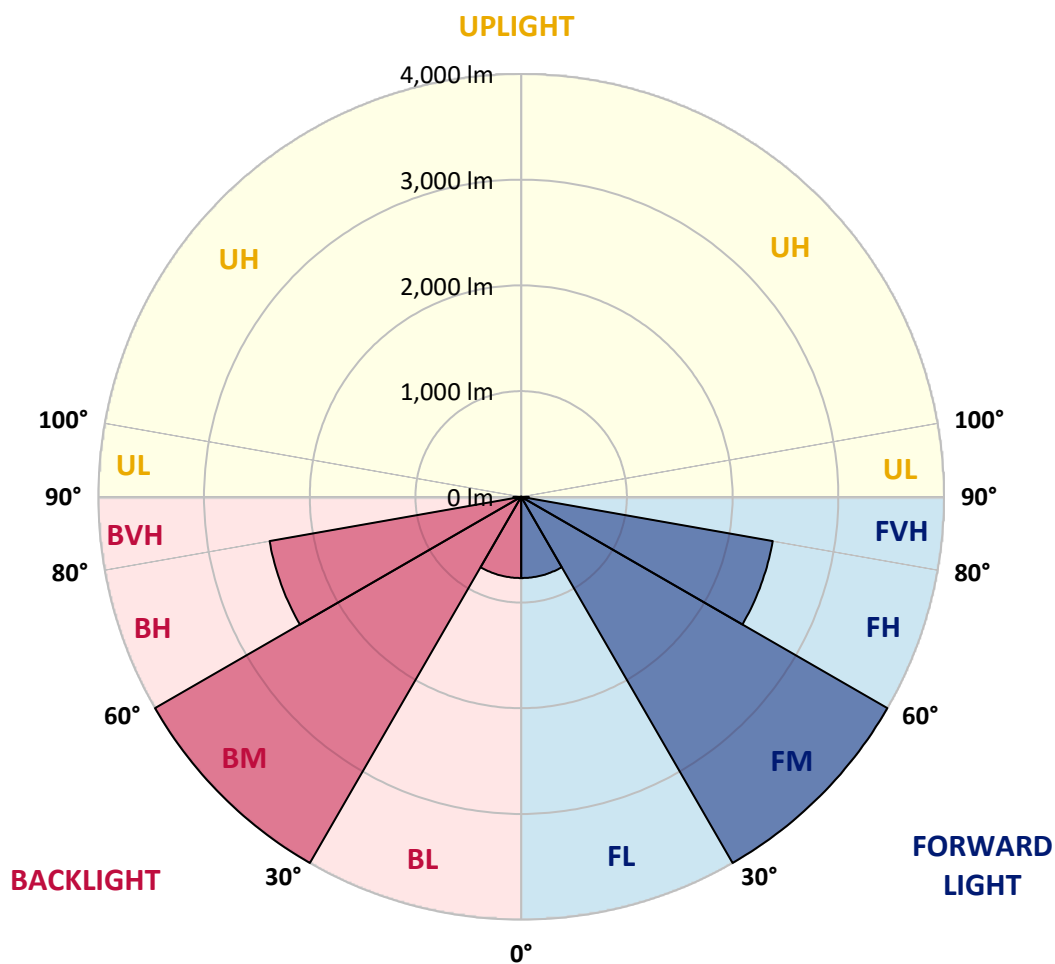
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	768.7	5.3			
FM	(30°-60°)	4000.3	27.6			
FH	(60°-80°)	2416.7	16.6			G2/5000
FVH	(80°-90°)	72.4	0.5			G1/100
BL	(0°-30°)	768.7	5.3	B2/1000		
BM	(30°-60°)	4000.3	27.6	B3/5000		
BH	(60°-80°)	2416.7	16.6	B3/2500		G3/2500
BVH	(80°-90°)	72.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2
2.5°	1607.4	1606.1	1607.4	1606.7	1608.1	1608.1	1609.5	1612.2	1612.2	1614.3	1613.6
5°	1591.7	1591.0	1593.0	1595.0	1597.2	1601.3	1605.3	1611.6	1616.4	1619.8	1623.3
7.5°	1560.8	1560.8	1563.5	1568.3	1573.2	1582.1	1591.7	1604.0	1616.4	1626.7	1635.6
10°	1535.4	1536.7	1540.2	1548.4	1556.6	1570.4	1583.3	1601.3	1618.4	1635.6	1649.3
12.5°	1520.4	1522.4	1528.5	1540.9	1554.6	1573.2	1593.0	1615.7	1634.8	1655.5	1669.2
15°	1525.1	1526.5	1535.4	1550.5	1568.3	1591.7	1618.4	1645.2	1667.9	1689.8	1708.3
17.5°	1551.9	1553.8	1564.3	1581.4	1599.9	1627.3	1656.2	1686.3	1714.5	1739.2	1761.8
20°	1599.9	1602.0	1615.0	1633.5	1655.5	1683.5	1712.4	1744.0	1775.6	1801.5	1827.0
22.5°	1667.9	1671.2	1683.5	1702.2	1726.9	1757.0	1791.3	1824.9	1855.1	1879.2	1901.7
25°	1757.0	1764.5	1776.2	1796.8	1822.9	1850.3	1887.4	1921.7	1950.5	1973.1	1989.6
27.5°	1883.2	1893.6	1902.4	1922.3	1947.8	1973.8	2010.8	2041.1	2068.5	2090.4	2102.8
30°	2050.7	2060.9	2069.8	2089.0	2112.4	2137.1	2172.1	2198.9	2216.0	2233.2	2232.3
32.5°	2253.7	2264.7	2268.1	2288.7	2312.7	2339.5	2371.0	2386.1	2399.9	2401.8	2389.5
35°	2480.8	2486.3	2500.0	2527.5	2554.9	2576.9	2607.0	2614.6	2614.6	2604.3	2576.9
37.5°	2729.9	2733.2	2752.5	2783.4	2811.5	2834.0	2854.7	2869.8	2862.3	2840.3	2794.3
40°	3002.9	3009.1	3036.6	3063.9	3095.6	3116.7	3138.7	3141.4	3133.9	3101.7	3039.3
42.5°	3263.6	3269.0	3296.6	3339.7	3380.9	3410.4	3431.0	3435.1	3411.1	3381.6	3304.1
45°	3487.9	3502.3	3538.1	3588.7	3648.5	3690.3	3718.4	3730.1	3708.8	3670.4	3580.5
47.5°	3665.6	3680.1	3730.7	3791.2	3865.3	3933.3	3979.9	4004.6	3999.0	3970.3	3872.1
50°	3796.0	3809.7	3864.6	3938.7	4025.1	4109.5	4189.1	4248.1	4268.6	4255.6	4165.7
52.5°	3811.1	3833.7	3898.2	3997.7	4110.3	4225.5	4338.6	4438.7	4506.7	4517.0	4450.4
55°	3600.4	3623.0	3712.3	3859.8	4027.2	4215.1	4396.3	4565.1	4698.8	4767.4	4732.4
57.5°	3103.7	3144.3	3238.2	3411.1	3657.4	3938.7	4227.5	4527.2	4799.6	4981.4	5016.4
60°	2378.6	2426.6	2521.2	2705.2	2979.6	3315.0	3700.6	4143.7	4624.7	5033.6	5277.9
62.5°	1525.8	1571.0	1670.6	1830.4	2054.1	2417.7	2831.4	3357.5	4003.8	4649.4	5231.3
65°	784.2	808.8	861.0	957.7	1132.0	1403.7	1774.8	2299.7	3038.6	3835.1	4676.2
67.5°	496.7	501.5	513.2	526.8	571.5	665.5	838.3	1165.6	1773.5	2604.3	3588.7
70°	429.5	429.5	424.0	422.0	427.4	440.5	467.2	543.3	748.5	1236.3	2069.8
72.5°	393.2	389.0	379.3	371.8	370.5	370.5	376.0	387.7	420.5	503.5	810.2
75°	362.2	350.6	337.5	328.7	325.1	321.8	321.1	323.2	330.0	343.1	386.9
77.5°	324.5	309.4	294.4	285.3	281.3	276.5	272.4	267.5	264.1	268.2	287.5
80°	279.2	262.1	250.4	245.0	240.8	234.0	225.1	216.8	209.2	207.9	219.5
82.5°	225.1	205.1	205.9	207.9	200.4	190.7	181.2	172.2	159.2	152.3	159.2
85°	181.8	171.5	166.7	179.7	168.8	154.4	139.3	123.5	102.9	86.5	94.0
87.5°	70.7	70.7	105.7	162.6	146.1	119.4	102.2	87.1	54.2	41.8	42.5
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°	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2
2.5°	1612.8	1614.3	1613.6	1612.8	1612.8	1612.2	1612.8	1612.8
5°	1625.2	1628.7	1628.7	1630.0	1630.0	1630.8	1631.5	1630.8
7.5°	1643.8	1650.0	1654.0	1658.9	1659.5	1660.3	1661.7	1660.3
10°	1662.3	1674.7	1683.5	1692.5	1696.6	1698.0	1699.4	1699.4
12.5°	1685.7	1702.8	1718.5	1734.4	1741.9	1746.1	1746.1	1748.8
15°	1724.1	1741.3	1759.7	1781.0	1794.0	1800.9	1803.0	1803.0
17.5°	1778.3	1793.4	1809.2	1829.8	1846.2	1855.1	1857.2	1856.6
20°	1841.3	1855.8	1864.7	1877.7	1892.2	1902.4	1905.2	1905.2
22.5°	1913.4	1921.7	1923.1	1927.2	1938.8	1952.6	1958.7	1960.1
25°	1993.0	1995.1	1989.6	1989.6	1997.2	2010.2	2016.4	2017.0
27.5°	2095.9	2085.6	2071.9	2067.0	2071.9	2087.0	2094.5	2097.2
30°	2224.2	2199.5	2167.9	2150.8	2148.0	2167.9	2181.7	2183.8
32.5°	2371.0	2335.3	2293.5	2258.5	2249.5	2262.0	2278.4	2277.7
35°	2545.3	2502.8	2452.0	2407.4	2386.8	2399.2	2422.5	2425.2
37.5°	2746.3	2690.7	2632.4	2576.2	2543.9	2547.4	2572.1	2580.2
40°	2970.6	2898.6	2825.2	2749.7	2703.7	2694.9	2725.0	2729.9
42.5°	3210.8	3118.2	3025.5	2932.2	2873.2	2859.6	2894.5	2892.4
45°	3466.7	3348.7	3240.3	3137.4	3067.4	3046.8	3075.6	3075.6
47.5°	3741.8	3596.4	3467.4	3350.8	3274.6	3245.1	3272.6	3274.6
50°	4033.3	3879.0	3727.4	3597.7	3506.4	3468.8	3504.4	3509.9
52.5°	4323.5	4173.2	4020.3	3872.1	3761.7	3715.7	3756.9	3774.7
55°	4617.9	4470.4	4324.3	4179.5	4048.5	3994.2	4038.1	4060.8
57.5°	4928.6	4792.1	4652.8	4506.7	4380.5	4296.1	4342.7	4373.0
60°	5292.9	5176.3	5031.6	4870.3	4742.7	4656.9	4683.7	4710.5
62.5°	5581.1	5626.5	5503.6	5317.0	5153.0	5043.2	5069.3	5097.4
65°	5441.8	5906.3	6015.4	5826.7	5599.6	5428.8	5417.8	5432.3
67.5°	4548.6	5450.7	6108.6	6288.4	6098.5	5861.0	5817.1	5838.4
70°	3042.7	4166.5	5327.3	6191.7	6421.5	6329.6	6286.3	6299.5
72.5°	1461.4	2426.6	3614.2	4763.2	5463.1	5784.1	5887.1	5937.1
75°	534.4	963.2	1741.9	2624.9	3168.9	3668.4	3994.2	4127.4
77.5°	322.5	389.0	556.3	837.7	948.8	1062.0	1018.1	1040.0
80°	238.7	269.7	305.3	343.1	355.4	355.4	341.7	330.7
82.5°	167.3	187.3	204.5	225.1	230.5	220.2	181.2	144.1
85°	107.7	116.6	124.2	137.2	133.8	127.7	85.8	76.2
87.5°	49.3	56.3	59.0	65.2	62.4	59.6	42.5	35.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)