

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: P194420

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL2-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9639 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 85
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

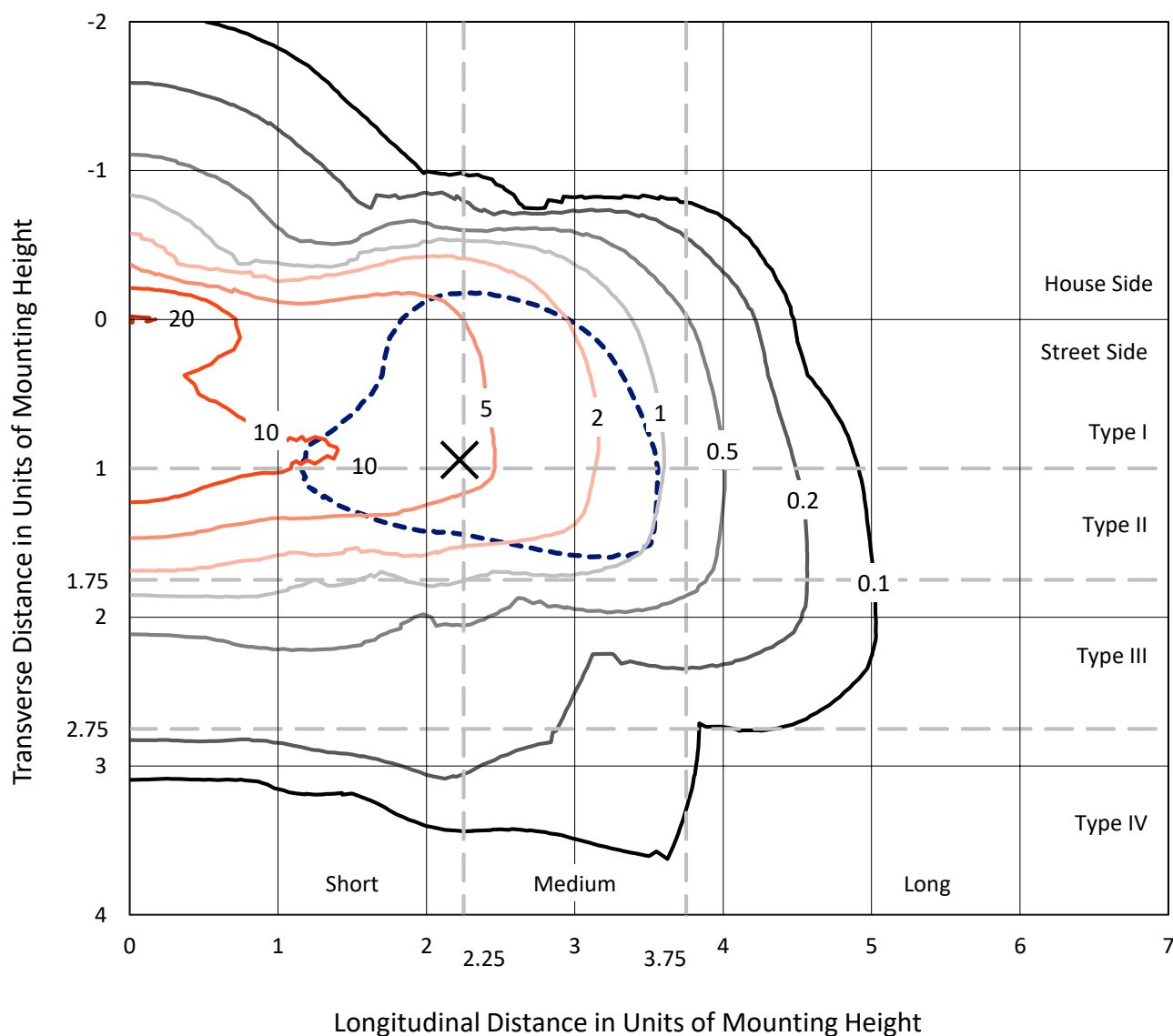


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

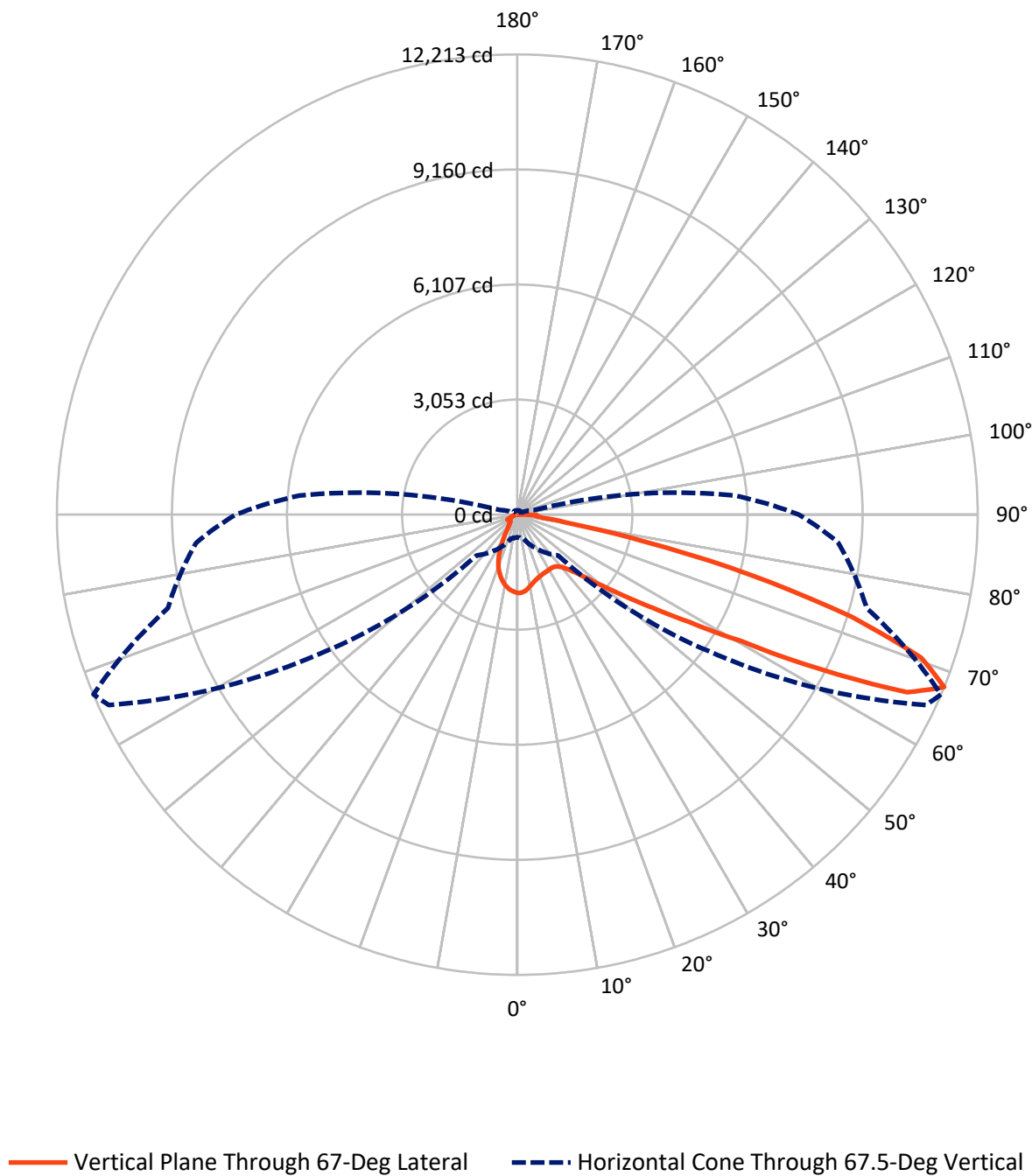


Based on 10 foot mounting height. Maximum calculated value = 20.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1597.1	0.0	1597.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	8041.9	0.0	8041.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	9639.0	0.0	9639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	1.8
10°-20°	410.4	4.3
20°-30°	556.3	5.8
30°-40°	790.9	8.2
40°-50°	1323.2	13.7
50°-60°	2093.3	21.7
60°-70°	2666.6	27.7
70°-80°	1396.8	14.5
80°-90°	224.0	2.3
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°	9639.0	100.0
0°-180°	9639.0	100.0

Coefficient of Utilization



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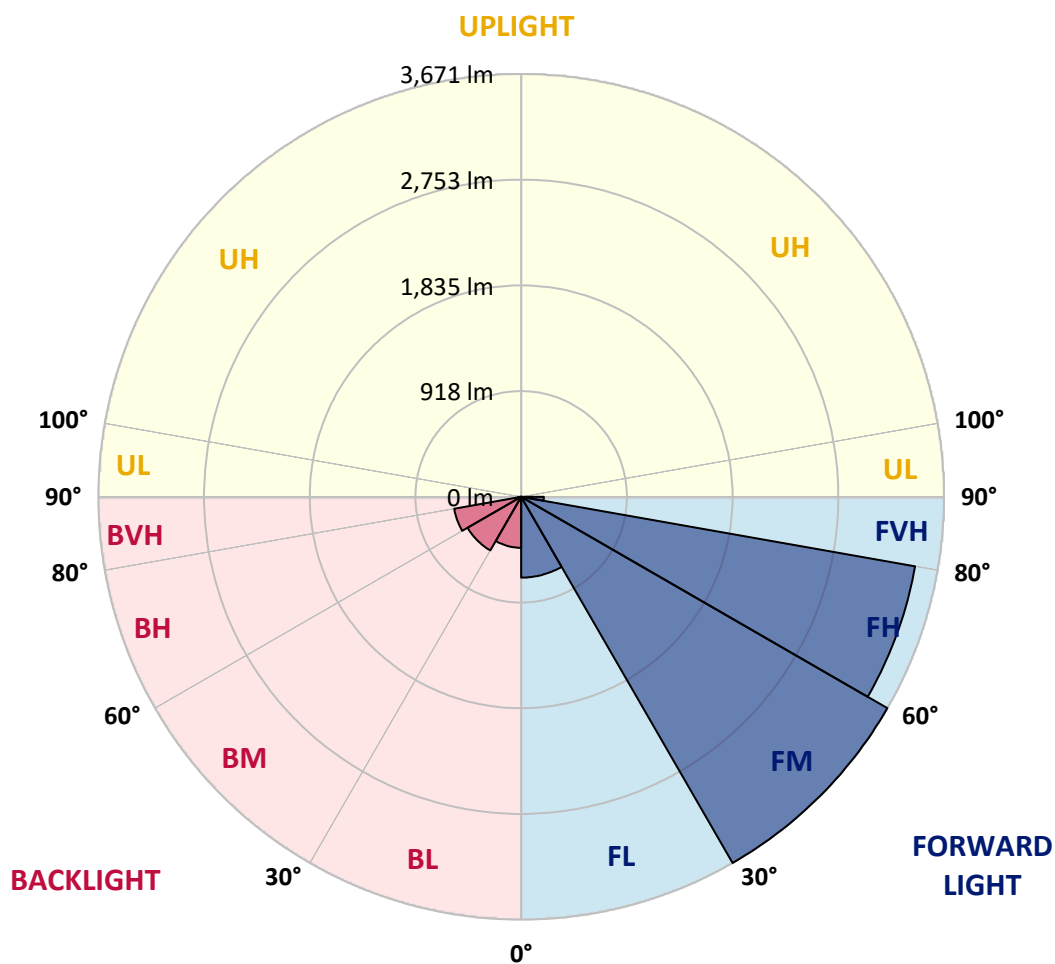
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	701.5	7.3			
FM	(30°-60°)	3670.7	38.1			
FH	(60°-80°)	3472.7	36.0			G2/5000
FVH	(80°-90°)	197.0	2.0			G2/225
BL	(0°-30°)	442.7	4.6	B1/500		
BM	(30°-60°)	536.7	5.6	B1/1000		
BH	(60°-80°)	590.7	6.1	B2/1000		G2/1000
BVH	(80°-90°)	27.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1
2.5°	1993.5	1996.9	2007.3	2014.0	2043.9	2056.8	2065.8	2074.8	2076.3	2080.5	2076.3
5°	1784.4	1791.5	1811.0	1832.9	1890.9	1936.5	1984.5	2034.4	2043.5	2075.8	2084.8
7.5°	1622.3	1620.4	1636.6	1662.7	1722.1	1785.4	1869.5	1968.8	1988.3	2061.0	2096.2
10°	1504.0	1502.5	1519.6	1546.7	1603.3	1663.2	1758.3	1894.2	1921.8	2037.8	2107.2
12.5°	1416.5	1417.0	1434.1	1464.0	1521.5	1581.9	1678.4	1822.0	1857.1	2010.7	2118.6
15°	1358.5	1362.3	1376.1	1407.9	1464.0	1524.4	1619.0	1767.8	1807.2	1989.3	2131.4
17.5°	1339.0	1345.2	1349.9	1373.2	1421.2	1481.6	1574.3	1727.8	1769.7	1974.5	2142.8
20°	1357.1	1364.2	1355.2	1363.3	1393.7	1446.9	1539.1	1696.5	1739.2	1957.9	2144.2
22.5°	1434.6	1441.2	1414.6	1391.3	1389.4	1421.7	1510.1	1671.7	1716.0	1945.5	2144.7
25°	1571.0	1575.3	1530.6	1476.4	1423.6	1412.7	1489.7	1654.6	1701.7	1934.6	2135.7
27.5°	1738.3	1741.6	1690.3	1610.4	1504.4	1434.1	1482.6	1644.7	1693.6	1925.1	2120.5
30°	1941.7	1957.4	1888.5	1787.7	1633.2	1497.3	1496.8	1639.4	1684.6	1908.9	2090.5
32.5°	2149.9	2156.6	2109.1	2006.9	1806.7	1608.5	1536.8	1643.2	1682.2	1889.5	2052.5
35°	2361.0	2369.5	2338.6	2256.4	2043.9	1771.6	1614.7	1665.6	1696.9	1882.8	2025.9
37.5°	2634.3	2645.7	2602.9	2507.9	2332.5	1992.6	1744.5	1721.7	1742.1	1901.8	2017.8
40°	3066.4	3061.1	2936.1	2794.5	2648.1	2275.4	1929.9	1816.7	1828.6	1963.1	2042.5
42.5°	3569.3	3556.4	3341.1	3118.7	2995.1	2617.7	2175.1	1981.7	1979.3	2083.9	2129.5
45°	3970.5	3960.0	3766.1	3491.8	3392.9	3007.4	2492.2	2227.4	2209.8	2275.4	2290.2
47.5°	4187.7	4188.2	4076.5	3852.6	3850.2	3502.7	2899.5	2583.0	2552.5	2583.4	2567.8
50°	4111.6	4121.6	4109.7	4038.4	4267.5	4152.0	3431.4	3078.7	3017.4	3047.8	2987.5
52.5°	3743.7	3756.6	3826.9	3936.2	4442.9	4936.8	4212.9	3694.8	3623.5	3612.5	3545.5
55°	3091.6	3107.3	3250.8	3547.9	4297.0	5464.0	5445.9	4480.0	4366.4	4263.3	4234.7
57.5°	2130.9	2157.1	2388.1	2829.2	3825.0	5623.2	6914.2	5599.4	5368.4	5008.1	5014.8
60°	1201.2	1231.6	1504.0	1904.7	2872.4	5450.2	8031.2	7294.9	6807.3	5880.4	5929.8
62.5°	763.9	796.7	1003.4	1323.3	1723.6	4518.5	8489.0	9652.1	9032.8	6955.6	7004.0
65°	618.4	632.7	730.1	1092.3	1251.6	2722.2	8141.5	11593.9	11362.8	8320.2	8094.0
67.5°	603.7	608.4	658.8	916.9	1200.2	1530.1	6494.0	11957.0	12213.2	9594.6	8547.9
70°	596.5	613.2	742.5	875.1	1149.4	1290.5	3902.5	10961.7	11366.2	9927.8	7943.8
72.5°	289.5	288.5	373.6	791.4	1294.8	1338.5	2005.0	8869.2	9275.2	8601.2	6527.8
75°	233.4	213.4	203.9	290.0	1244.9	1382.3	1277.7	6102.8	6396.6	5766.7	4012.8
77.5°	221.5	197.7	181.1	181.6	526.2	1465.9	1082.3	3377.7	3463.3	2604.8	1099.4
80°	183.5	161.6	149.7	168.7	254.8	1396.1	1170.3	1528.7	1402.7	639.8	366.0
82.5°	127.4	116.0	112.7	141.6	203.9	994.9	1360.9	821.4	688.8	320.4	225.8
85°	81.3	69.4	77.0	103.1	158.8	459.2	1401.8	640.3	509.1	203.4	127.4
87.5°	37.6	30.4	38.0	57.0	103.6	158.3	1333.8	719.2	524.3	107.4	80.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1
2.5°	2080.1	2071.0	2063.9	2050.6	2035.9	2021.6	2008.8	1992.6	1987.8	1983.6	1990.2
5°	2086.7	2077.7	2051.5	2010.7	1965.5	1923.2	1880.9	1844.8	1822.4	1810.1	1817.2
7.5°	2096.7	2083.9	2029.7	1954.6	1873.3	1799.1	1722.6	1661.3	1616.1	1594.7	1600.9
10°	2105.7	2081.0	1992.6	1879.9	1761.1	1650.8	1530.1	1430.3	1356.1	1317.1	1326.7
12.5°	2109.5	2070.1	1940.8	1786.8	1623.7	1462.1	1284.4	1135.1	1028.6	989.6	981.6
15°	2113.3	2057.7	1883.7	1680.8	1457.8	1229.2	980.1	801.4	713.0	693.5	689.2
17.5°	2114.3	2036.3	1819.1	1565.7	1263.4	952.1	670.2	556.6	557.1	588.5	592.3
20°	2104.3	2004.5	1740.7	1422.7	1030.5	658.3	460.1	440.6	512.4	590.8	600.3
22.5°	2081.5	1962.2	1651.8	1255.8	763.9	433.5	356.0	377.4	470.1	566.1	577.1
25°	2052.5	1910.8	1546.7	1062.4	505.8	309.9	298.5	324.7	387.4	451.6	457.7
27.5°	2013.0	1850.0	1428.9	840.9	328.5	255.3	262.9	280.4	306.1	334.6	337.5
30°	1962.2	1777.3	1302.9	613.2	248.1	229.6	240.5	250.0	261.0	277.1	278.5
32.5°	1903.7	1707.4	1173.6	423.5	220.1	216.3	224.8	229.6	238.1	248.1	249.1
35°	1854.8	1640.9	1039.6	299.5	208.2	206.3	212.0	213.9	222.0	232.9	233.9
37.5°	1826.7	1586.7	901.2	241.5	200.1	197.3	200.6	200.6	212.0	228.2	230.5
40°	1828.6	1556.7	762.9	218.2	193.5	189.7	190.1	190.1	204.9	222.5	223.9
42.5°	1880.4	1564.3	640.3	209.1	188.2	184.0	181.6	183.0	195.4	206.8	207.7
45°	2002.1	1618.0	525.2	203.4	183.0	181.6	176.3	175.9	180.6	185.9	185.9
47.5°	2201.7	1724.0	447.3	199.6	178.7	178.3	172.1	165.9	165.4	167.3	167.3
50°	2526.4	1906.6	395.0	195.4	175.9	172.1	164.9	155.4	152.1	153.5	153.5
52.5°	3013.1	2232.2	375.0	189.7	169.7	163.5	155.4	145.9	143.1	143.6	143.6
55°	3651.5	2732.2	372.2	183.0	163.0	153.1	146.4	139.3	135.9	136.9	136.9
57.5°	4431.5	3423.8	423.0	172.5	154.0	142.6	138.8	134.0	131.7	133.1	132.6
60°	5379.8	4328.9	627.4	161.6	145.0	133.1	133.1	129.3	127.4	128.8	128.3
62.5°	6472.1	5368.4	882.2	153.5	135.5	125.5	127.4	125.5	123.6	124.5	124.1
65°	7440.9	6045.8	826.1	147.4	126.0	118.4	121.7	120.7	119.3	120.3	119.8
67.5°	7468.9	5794.8	463.9	140.7	116.9	111.2	116.0	115.5	114.6	115.5	115.0
70°	6665.6	4893.1	261.4	128.3	107.4	102.7	109.3	108.9	107.9	109.8	109.3
72.5°	5340.4	3550.7	191.1	113.1	97.9	93.6	101.2	100.8	100.8	103.6	102.2
75°	3073.0	1827.2	152.6	97.0	87.9	84.6	91.3	91.7	92.7	96.5	93.6
77.5°	876.0	569.4	124.5	82.2	75.6	74.2	80.8	81.8	82.2	86.5	82.7
80°	325.6	262.4	102.7	68.9	61.8	62.3	68.4	69.9	70.3	74.6	69.9
82.5°	207.7	173.0	83.2	53.2	48.5	48.0	55.6	57.5	57.5	58.0	55.1
85°	121.2	103.6	62.7	38.5	34.2	32.8	41.4	44.7	43.3	42.3	40.4
87.5°	81.3	71.3	38.5	21.4	18.5	17.6	24.2	26.6	25.7	24.2	22.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)