

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: P192810

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192810
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-SL2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA 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: 7603.4 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

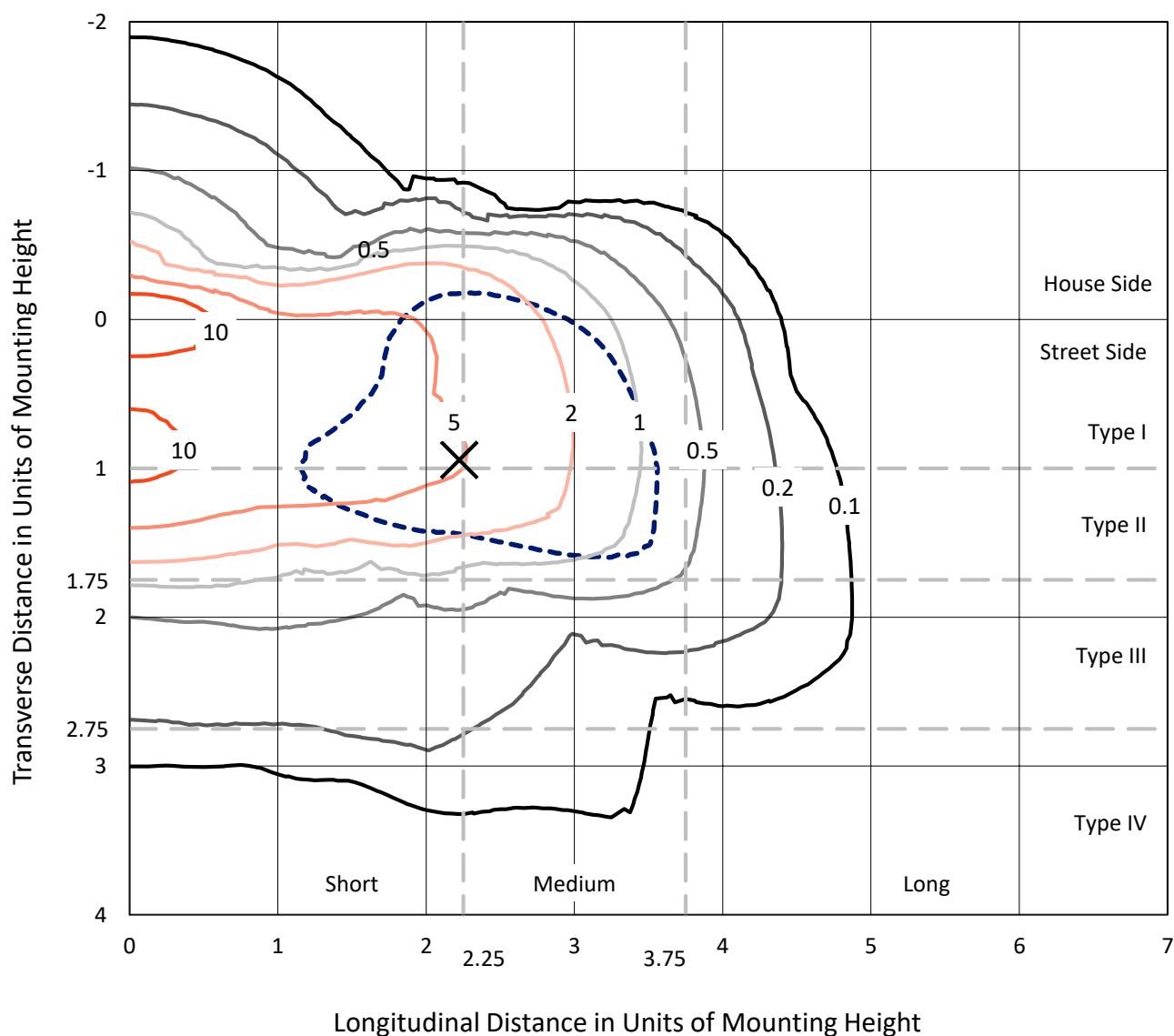


REPORT NUMBER: P192810

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

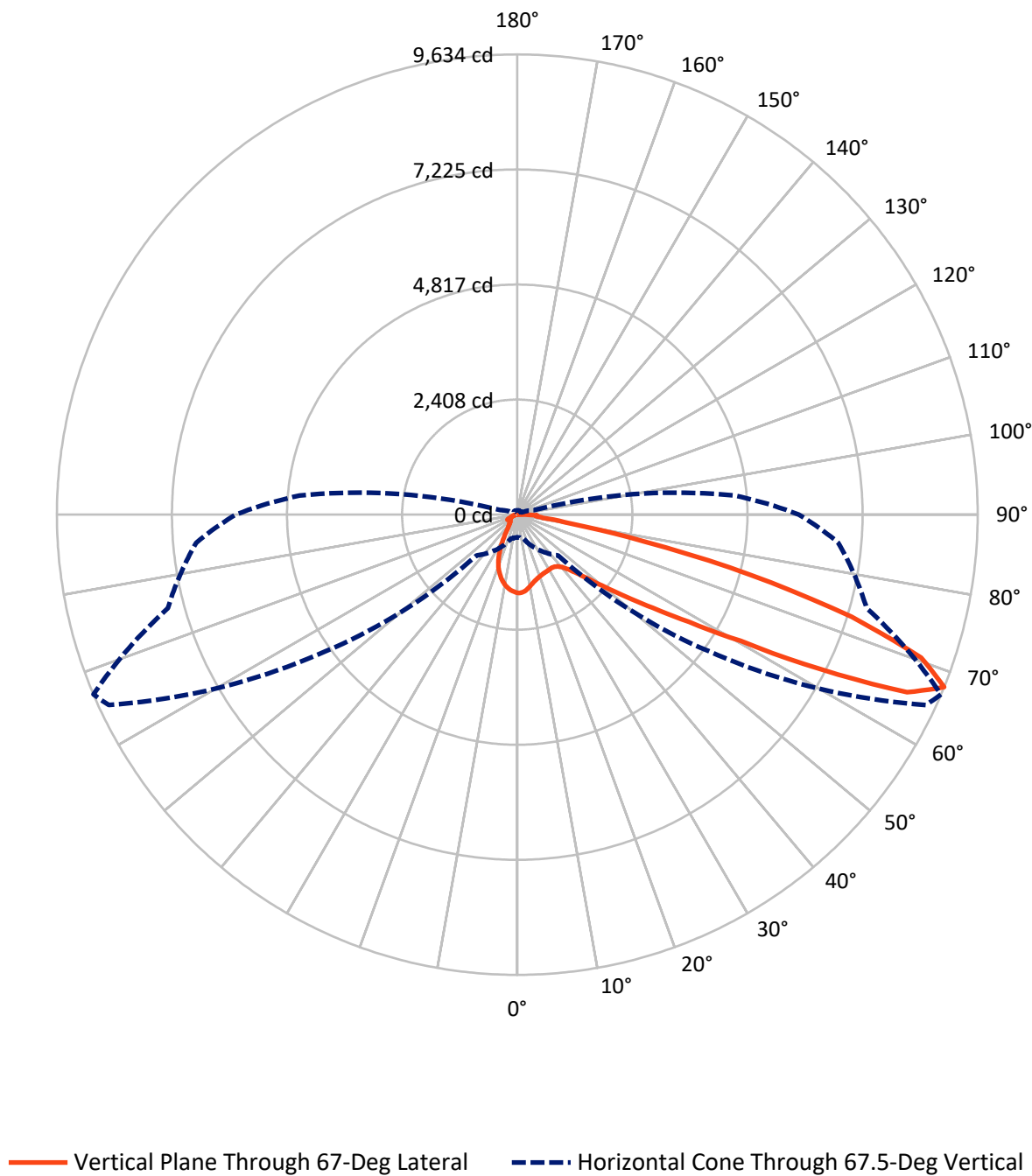


Based on 10 foot mounting height. Maximum calculated value = 16.4 fc
Type II - Short - Semi-Cutoff

REPORT NUMBER: P192810

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-7030-600

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1259.8	0.0	1259.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	6343.6	0.0	6343.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	7603.4	0.0	7603.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	1.8
10°-20°	323.7	4.3
20°-30°	438.9	5.8
30°-40°	623.9	8.2
40°-50°	1043.8	13.7
50°-60°	1651.2	21.7
60°-70°	2103.5	27.7
70°-80°	1101.8	14.5
80°-90°	176.7	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°	7603.4	100.0
0°-180°	7603.4	100.0

Coefficient of Utilization



REPORT NUMBER: P192810

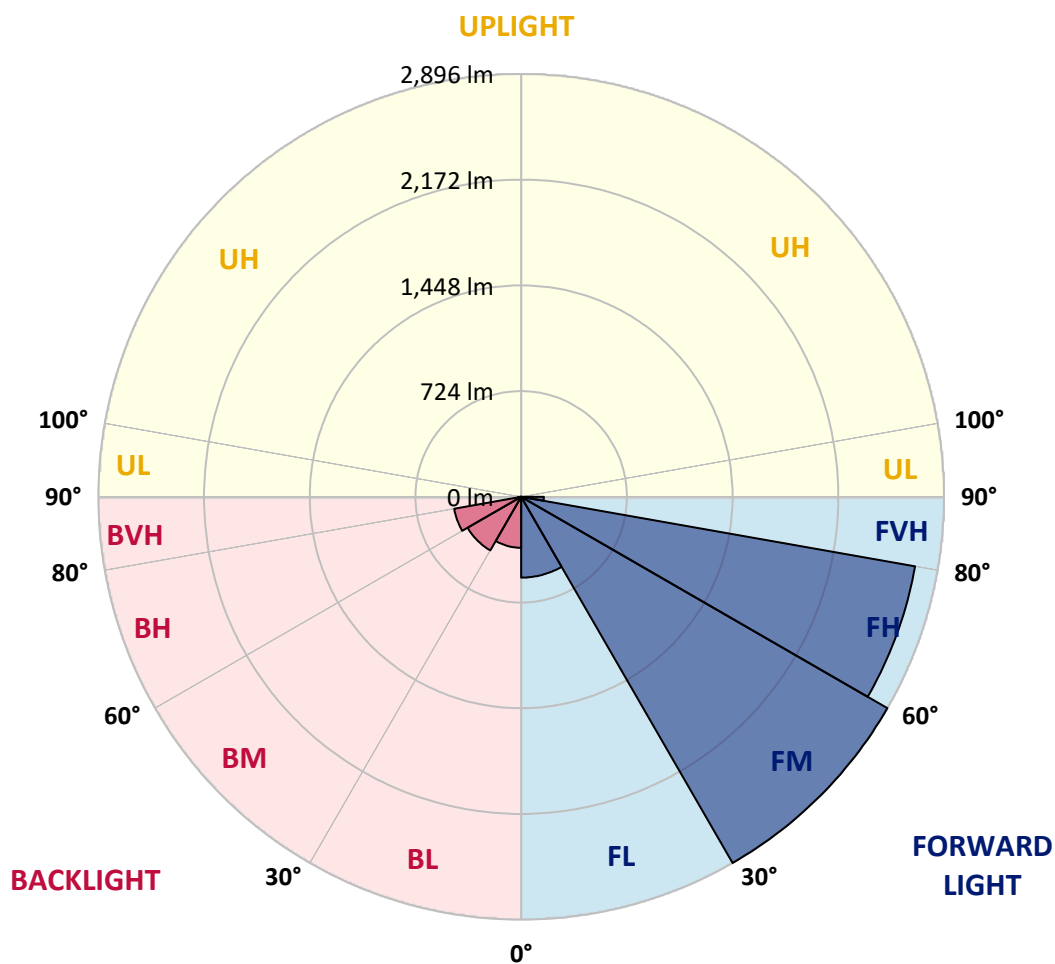
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	553.3	7.3			
FM	(30°-60°)	2895.5	38.1			
FH	(60°-80°)	2739.3	36.0			G2/5000
FVH	(80°-90°)	155.4	2.0			G2/225
BL	(0°-30°)	349.2	4.6	B1/500		
BM	(30°-60°)	423.3	5.6	B1/1000		
BH	(60°-80°)	466.0	6.1	B1/500		G1/500
BVH	(80°-90°)	21.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



REPORT NUMBER: P192810

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0
2.5°	1572.6	1575.2	1583.3	1588.6	1612.2	1622.4	1629.5	1636.7	1637.8	1641.2	1637.8
5°	1407.6	1413.2	1428.6	1445.8	1491.5	1527.6	1565.3	1604.8	1611.9	1637.4	1644.6
7.5°	1279.7	1278.3	1290.9	1311.5	1358.4	1408.4	1474.7	1553.0	1568.4	1625.8	1653.5
10°	1186.3	1185.3	1198.7	1220.1	1264.6	1311.9	1386.9	1494.1	1515.9	1607.4	1662.2
12.5°	1117.4	1117.7	1131.3	1154.9	1200.2	1247.8	1323.9	1437.2	1464.9	1586.0	1671.1
15°	1071.7	1074.6	1085.5	1110.6	1154.9	1202.5	1277.0	1394.4	1425.5	1569.2	1681.3
17.5°	1056.2	1061.1	1064.8	1083.2	1121.1	1168.7	1241.8	1362.9	1395.9	1557.5	1690.2
20°	1070.5	1076.1	1069.0	1075.3	1099.3	1141.3	1214.1	1338.2	1372.0	1544.4	1691.5
22.5°	1131.6	1136.9	1115.9	1097.5	1096.0	1121.4	1191.3	1318.6	1353.6	1534.6	1691.8
25°	1239.2	1242.6	1207.4	1164.6	1122.9	1114.3	1175.1	1305.2	1342.4	1526.1	1684.7
27.5°	1371.2	1373.8	1333.3	1270.3	1186.7	1131.3	1169.5	1297.4	1335.9	1518.6	1672.6
30°	1531.7	1544.1	1489.6	1410.2	1288.2	1181.1	1180.8	1293.2	1328.8	1505.8	1649.0
32.5°	1695.9	1701.1	1663.7	1583.0	1425.2	1268.8	1212.2	1296.2	1327.0	1490.4	1619.0
35°	1862.4	1869.1	1844.8	1779.9	1612.2	1397.4	1273.8	1313.9	1338.5	1485.2	1598.0
37.5°	2078.0	2087.0	2053.2	1978.2	1839.9	1571.8	1376.0	1358.1	1374.2	1500.1	1591.7
40°	2418.8	2414.6	2316.1	2204.3	2088.8	1794.9	1522.3	1433.1	1442.4	1548.5	1611.1
42.5°	2815.5	2805.3	2635.6	2460.1	2362.5	2064.9	1715.8	1563.2	1561.4	1643.8	1679.8
45°	3131.9	3123.7	2970.8	2754.3	2676.5	2372.3	1965.9	1757.0	1743.1	1794.9	1806.5
47.5°	3303.4	3303.7	3215.6	3038.9	3037.1	2762.9	2287.3	2037.4	2013.4	2037.8	2025.4
50°	3243.3	3251.2	3241.8	3185.6	3366.3	3275.1	2706.8	2428.5	2380.2	2404.1	2356.5
52.5°	2953.1	2963.2	3018.8	3104.9	3504.6	3894.2	3323.1	2914.5	2858.2	2849.6	2796.7
55°	2438.6	2451.0	2564.4	2798.5	3389.6	4310.1	4295.7	3533.9	3444.3	3362.9	3340.4
57.5°	1680.9	1701.5	1883.7	2231.7	3017.2	4435.6	5454.0	4417.0	4234.7	3950.5	3955.7
60°	947.5	971.6	1186.3	1502.5	2265.8	4299.2	6335.2	5754.3	5369.6	4638.5	4677.5
62.5°	602.6	628.5	791.5	1043.9	1359.5	3564.2	6696.2	7613.7	7125.2	5486.7	5524.9
65°	487.9	499.1	575.9	861.6	987.2	2147.4	6422.2	9145.3	8963.2	6563.1	6384.7
67.5°	476.2	479.9	519.6	723.3	946.7	1207.0	5122.5	9431.8	9633.9	7568.3	6742.7
70°	470.6	483.7	585.6	690.3	906.7	1018.0	3078.4	8646.7	8965.9	7831.1	6266.1
72.5°	228.4	227.6	294.7	624.3	1021.3	1055.9	1581.5	6996.2	7316.3	6784.7	5149.2
75°	184.1	168.4	160.8	228.7	982.0	1090.3	1007.8	4814.0	5045.7	4548.9	3165.3
77.5°	174.7	156.0	142.8	143.2	415.0	1156.3	853.8	2664.4	2731.9	2054.7	867.3
80°	144.8	127.5	118.1	133.1	200.9	1101.3	923.1	1205.7	1106.5	504.7	288.7
82.5°	100.5	91.4	88.8	111.8	160.8	784.8	1073.5	647.9	543.3	252.7	178.1
85°	64.1	54.7	60.7	81.4	125.2	362.2	1105.7	505.1	401.5	160.5	100.5
87.5°	29.6	24.0	30.0	45.1	81.7	124.9	1052.0	567.3	413.5	84.7	63.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P192810

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-7030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0
2.5°	1640.7	1633.7	1628.1	1617.5	1605.9	1594.6	1584.5	1571.8	1568.1	1564.7	1569.9
5°	1646.0	1638.9	1618.2	1586.0	1550.4	1517.1	1483.6	1455.3	1437.6	1427.8	1433.5
7.5°	1653.8	1643.8	1600.9	1541.7	1477.6	1419.2	1358.8	1310.4	1274.8	1257.9	1262.8
10°	1661.1	1641.5	1571.8	1482.8	1389.2	1302.2	1207.0	1128.2	1069.7	1038.9	1046.4
12.5°	1664.0	1632.9	1530.9	1409.5	1280.8	1153.3	1013.2	895.4	811.4	780.6	774.3
15°	1667.0	1623.1	1485.9	1325.9	1150.0	969.5	773.1	632.2	562.4	547.1	543.7
17.5°	1667.8	1606.3	1434.9	1235.0	996.7	751.0	528.7	439.1	439.4	464.2	467.2
20°	1659.8	1581.2	1373.1	1122.2	812.9	519.3	363.0	347.6	404.2	466.1	473.5
22.5°	1641.9	1547.7	1302.9	990.7	602.6	342.0	280.8	297.7	370.8	446.6	455.2
25°	1619.0	1507.3	1220.1	838.0	398.9	244.4	235.5	256.1	305.6	356.1	361.1
27.5°	1587.9	1459.2	1127.1	663.3	259.1	201.4	207.4	221.2	241.5	264.0	266.3
30°	1547.7	1401.9	1027.7	483.7	195.7	181.2	189.7	197.2	205.9	218.6	219.7
32.5°	1501.7	1346.8	925.8	334.2	173.6	170.6	177.3	181.2	187.8	195.7	196.4
35°	1463.1	1294.2	820.0	236.2	164.2	162.7	167.2	168.7	175.2	183.8	184.4
37.5°	1440.9	1251.6	710.9	190.4	157.9	155.5	158.2	158.2	167.2	180.0	181.8
40°	1442.4	1228.0	601.8	172.1	152.6	149.5	150.0	150.0	161.6	175.5	176.6
42.5°	1483.3	1234.0	505.1	165.0	148.5	145.1	143.2	144.3	154.0	163.2	163.9
45°	1579.3	1276.3	414.3	160.5	144.3	143.2	139.1	138.8	142.5	146.6	146.6
47.5°	1736.7	1360.0	352.8	157.5	141.0	140.6	135.7	130.9	130.4	131.9	131.9
50°	1992.9	1504.0	311.6	154.0	138.8	135.7	130.1	122.6	119.9	121.1	121.1
52.5°	2376.8	1760.7	295.9	149.5	133.9	129.0	122.6	115.2	112.9	113.2	113.2
55°	2880.4	2155.2	293.6	144.3	128.6	120.7	115.5	109.8	107.2	107.9	107.9
57.5°	3495.6	2700.8	333.7	136.1	121.5	112.5	109.5	105.8	103.9	105.0	104.6
60°	4243.6	3414.7	495.0	127.5	114.4	105.0	105.0	101.9	100.5	101.6	101.3
62.5°	5105.2	4234.7	695.9	121.1	106.8	99.0	100.5	99.0	97.5	98.3	97.9
65°	5869.4	4768.9	651.6	116.3	99.3	93.4	96.0	95.3	94.1	94.8	94.5
67.5°	5891.6	4571.0	365.9	111.0	92.3	87.7	91.4	91.1	90.3	91.1	90.6
70°	5257.9	3859.7	206.2	101.3	84.7	81.0	86.2	85.9	85.1	86.7	86.2
72.5°	4212.6	2800.9	150.8	89.3	77.2	73.9	79.9	79.5	79.5	81.7	80.7
75°	2424.0	1441.3	120.4	76.5	69.4	66.7	72.0	72.3	73.1	76.2	73.9
77.5°	691.1	449.2	98.3	64.9	59.6	58.5	63.7	64.5	64.9	68.3	65.2
80°	256.9	206.9	81.0	54.4	48.7	49.1	54.0	55.0	55.5	58.9	55.0
82.5°	163.9	136.5	65.7	41.9	38.2	37.9	43.9	45.4	45.4	45.8	43.4
85°	95.6	81.7	49.5	30.4	27.0	25.9	32.7	35.3	34.1	33.4	31.9
87.5°	64.1	56.3	30.4	16.8	14.6	13.8	19.1	21.0	20.2	19.1	18.0
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)