

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: P192699

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-AFL-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4996.4 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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



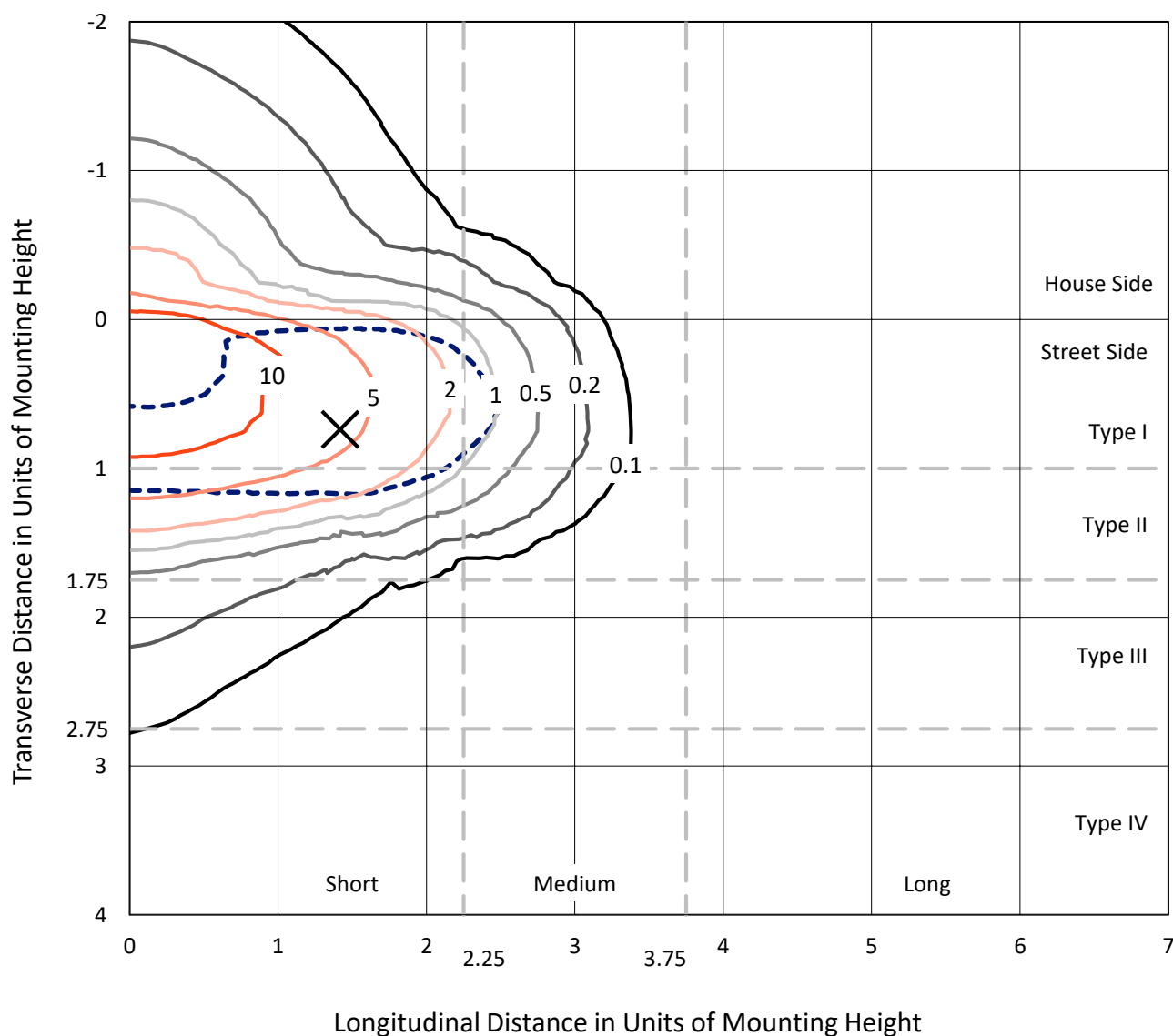
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

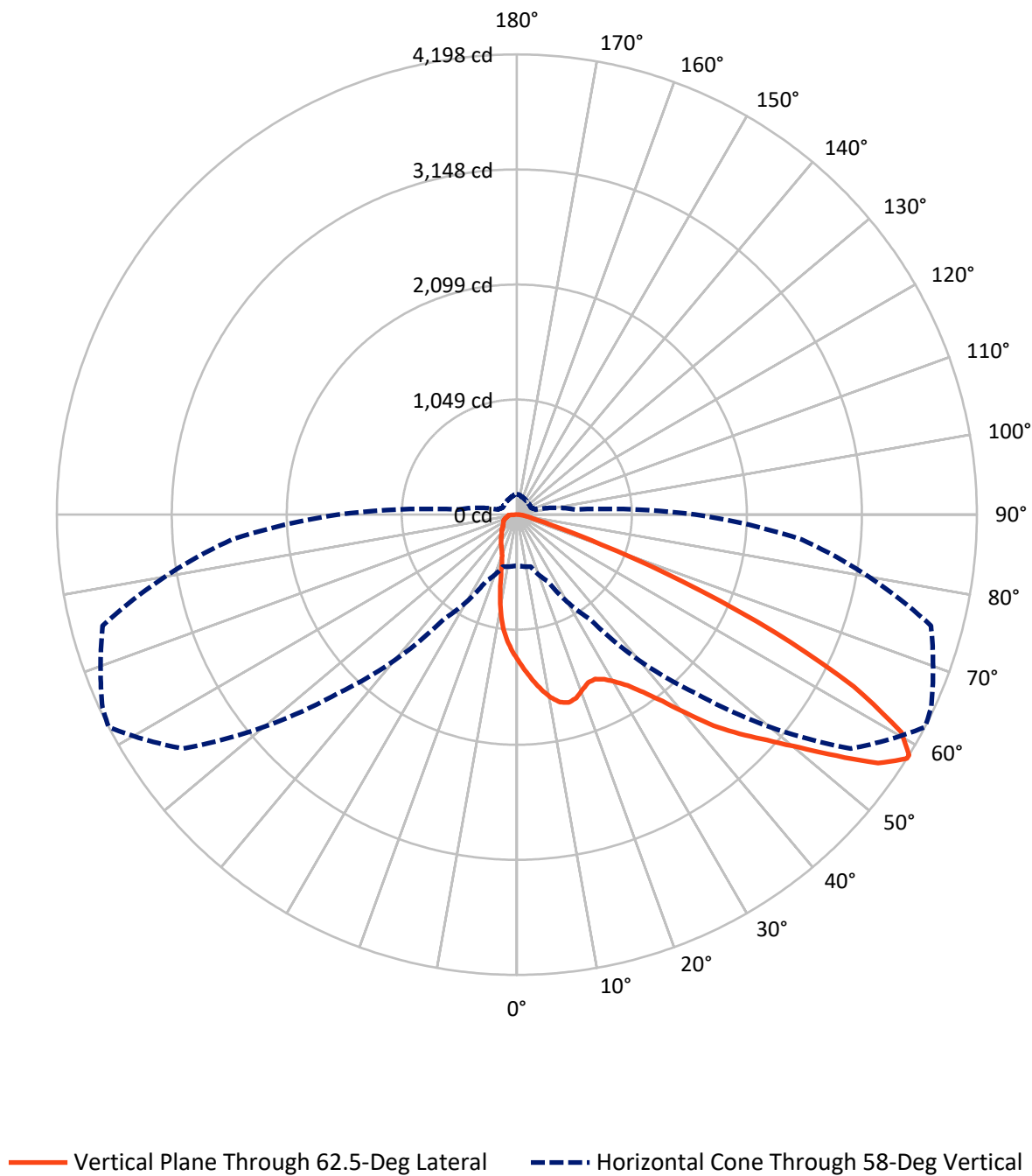


Based on 10 foot mounting height. Maximum calculated value = 16.2 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	762.0	0.0	762.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	4234.4	0.0	4234.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	4996.4	0.0	4996.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	2.4
10°-20°	303.4	6.1
20°-30°	490.5	9.8
30°-40°	778.6	15.6
40°-50°	1139.3	22.8
50°-60°	1191.6	23.8
60°-70°	704.0	14.1
70°-80°	198.3	4.0
80°-90°	72.0	1.4
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°	4996.4	100.0
0°-180°	4996.4	100.0

Coefficient of Utilization



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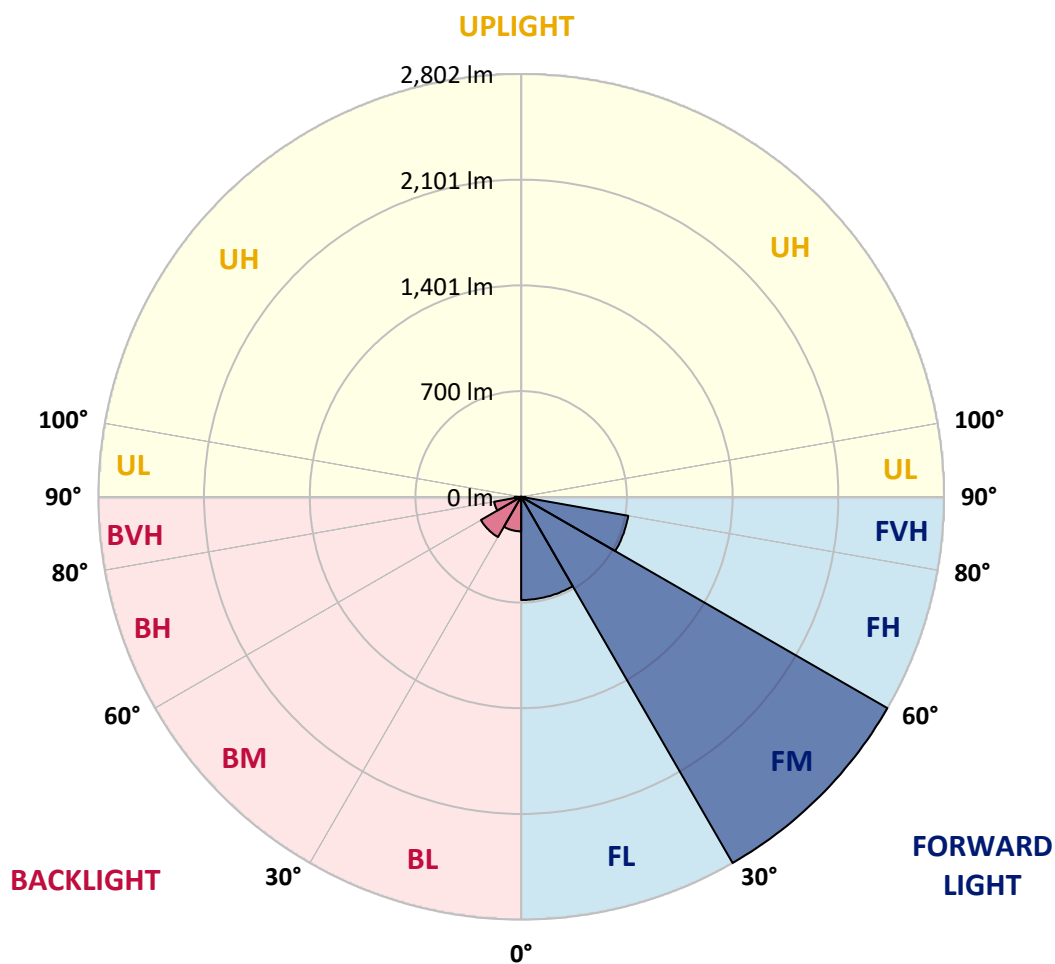
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	683.6	13.7			
FM	(30°-60°)	2802.0	56.1			
FH	(60°-80°)	720.5	14.4			G1/1800
FVH	(80°-90°)	28.4	0.6			G1/100
BL	(0°-30°)	229.0	4.6	B1/500		
BM	(30°-60°)	307.6	6.2	B1/1000		
BH	(60°-80°)	181.8	3.6	B1/500		G1/500
BVH	(80°-90°)	43.6	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2
2.5°	1516.6	1504.4	1496.7	1489.8	1480.8	1461.8	1436.1	1420.0	1411.6	1383.7	1350.5
5°	1665.3	1654.5	1646.4	1637.2	1621.3	1591.4	1550.0	1517.1	1500.7	1444.9	1378.6
7.5°	1630.4	1634.9	1648.8	1673.1	1693.7	1689.8	1652.9	1610.9	1589.5	1511.6	1411.0
10°	1420.6	1428.3	1452.4	1509.1	1600.8	1694.9	1723.7	1694.7	1673.1	1577.8	1444.4
12.5°	1378.6	1378.3	1380.2	1395.2	1449.8	1582.3	1726.0	1755.1	1742.2	1640.8	1478.5
15°	1395.7	1396.2	1394.7	1401.0	1417.9	1470.5	1653.9	1778.4	1787.6	1704.3	1513.8
17.5°	1440.8	1439.7	1434.2	1434.2	1440.4	1460.8	1569.3	1756.8	1799.2	1760.6	1544.8
20°	1516.6	1511.2	1496.9	1483.6	1477.0	1488.1	1534.4	1706.9	1779.2	1809.8	1570.5
22.5°	1608.4	1604.2	1580.9	1552.6	1529.7	1529.5	1552.3	1663.4	1744.6	1856.1	1592.1
25°	1727.0	1720.1	1685.6	1640.3	1600.3	1585.1	1591.4	1661.3	1725.7	1906.5	1611.5
27.5°	1866.2	1853.8	1812.8	1747.6	1688.8	1658.0	1648.8	1699.6	1742.9	1968.9	1638.3
30°	2035.2	2020.7	1968.3	1883.4	1800.4	1749.8	1730.2	1767.6	1799.8	2044.8	1681.3
32.5°	2227.4	2206.7	2146.0	2052.3	1943.1	1865.9	1834.3	1857.5	1883.2	2136.3	1735.1
35°	2493.0	2468.2	2380.5	2251.4	2128.1	2022.0	1971.1	1988.1	2013.0	2272.8	1813.0
37.5°	2674.1	2663.0	2604.7	2483.4	2349.3	2227.1	2148.6	2158.4	2172.5	2443.4	1912.8
40°	2672.5	2677.0	2678.2	2679.4	2588.1	2471.1	2386.7	2376.3	2373.4	2630.6	2026.2
42.5°	2538.6	2557.0	2616.3	2736.5	2792.0	2738.4	2661.0	2631.1	2616.3	2851.3	2146.4
45°	2333.7	2343.6	2454.6	2689.4	2896.5	3003.1	2944.5	2850.3	2823.6	3054.2	2246.2
47.5°	2228.2	2238.9	2308.7	2564.8	2895.4	3216.9	3250.8	3071.5	3023.5	3230.6	2332.3
50°	1976.6	1999.1	2087.2	2347.9	2789.7	3315.3	3571.0	3335.0	3235.8	3402.4	2418.7
52.5°	1514.7	1549.6	1648.0	1991.1	2521.7	3266.7	3827.3	3654.6	3514.4	3580.2	2492.8
55°	955.5	981.3	1064.1	1406.2	2017.3	3013.2	3924.4	4000.2	3875.5	3748.6	2557.0
57.5°	519.5	531.0	562.0	776.4	1312.1	2453.0	3782.8	4196.8	4145.1	3891.7	2605.5
58°	464.9	472.6	492.0	672.9	1163.7	2299.8	3720.0	4197.6	4171.7	3912.7	2609.2
60°	344.9	340.9	323.7	383.9	647.7	1588.8	3340.3	4029.6	4105.6	3938.4	2590.9
62.5°	303.0	293.4	258.3	254.3	315.0	731.9	2555.8	3451.7	3631.2	3792.0	2479.3
65°	284.7	274.3	229.1	214.5	227.3	309.6	1505.6	2588.8	2813.9	3348.2	2194.2
67.5°	271.1	257.7	210.6	190.5	191.5	204.7	603.4	1630.4	1883.8	2542.1	1706.7
70°	257.9	243.3	194.8	171.7	166.3	161.9	240.0	816.1	1046.0	1605.8	1088.1
72.5°	243.7	229.5	181.0	156.9	146.3	131.5	156.7	333.9	466.3	759.7	493.7
75°	223.3	210.4	167.0	143.7	128.7	108.9	118.3	174.4	209.1	302.5	237.8
77.5°	198.1	187.5	151.6	133.0	114.0	88.5	91.0	121.0	134.1	173.1	141.4
80°	142.4	146.1	134.8	119.5	101.6	71.8	69.9	88.3	95.3	111.3	92.0
82.5°	100.0	102.1	111.6	97.7	84.0	56.5	51.6	62.1	66.3	73.2	49.6
85°	69.0	66.5	76.5	68.0	60.7	37.7	35.3	42.1	44.7	45.5	25.6
87.5°	41.4	41.4	44.2	36.5	32.7	19.5	19.0	24.0	25.6	24.5	14.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2
2.5°	1330.8	1314.1	1278.5	1250.0	1214.0	1176.6	1155.6	1133.3	1118.0	1107.1	1124.6
5°	1340.8	1306.7	1233.3	1163.7	1086.7	1006.8	946.0	889.6	850.2	825.8	848.8
7.5°	1356.9	1304.3	1187.4	1068.4	930.3	797.1	678.1	603.4	560.0	538.5	552.0
10°	1375.2	1300.6	1133.6	939.2	741.6	573.8	484.9	454.7	444.9	440.9	442.8
12.5°	1390.6	1292.6	1067.5	783.0	556.9	453.1	427.5	426.7	429.0	429.4	430.1
15°	1401.4	1280.8	969.3	620.1	445.3	412.9	411.5	415.7	419.8	421.4	422.3
17.5°	1408.6	1256.6	858.6	490.3	399.1	393.4	396.7	402.1	406.3	407.5	408.4
20°	1408.0	1221.1	726.6	408.9	373.8	373.8	379.4	383.7	383.9	382.5	383.3
22.5°	1400.6	1172.4	598.5	365.6	351.5	355.5	361.1	357.2	340.7	329.9	330.6
25°	1388.3	1114.2	488.9	338.0	330.8	337.8	336.2	306.2	282.6	271.9	271.9
27.5°	1377.5	1045.6	404.7	314.1	310.1	318.8	289.6	262.3	252.5	247.5	245.9
30°	1369.8	971.5	348.4	291.0	290.5	284.2	251.3	243.7	242.1	238.0	236.6
32.5°	1371.6	896.4	312.5	270.9	272.5	243.3	232.9	234.6	233.2	228.9	227.0
35°	1387.1	825.1	288.9	252.5	247.5	219.7	222.2	225.2	224.6	218.8	216.9
37.5°	1414.9	757.6	273.3	237.2	216.0	208.0	211.8	216.5	215.2	211.3	209.9
40°	1444.1	694.1	260.7	225.2	197.4	200.0	203.3	205.9	207.0	208.2	207.3
42.5°	1472.6	627.7	245.2	212.9	189.7	192.4	193.8	196.4	202.7	207.3	207.0
45°	1489.5	565.4	229.1	195.5	183.5	185.2	184.2	189.3	197.2	204.5	204.7
47.5°	1508.4	516.9	216.5	179.5	177.6	178.8	176.0	181.2	188.3	197.2	198.1
50°	1531.2	488.0	206.4	166.8	169.7	169.7	169.0	173.6	183.5	193.8	195.8
52.5°	1557.1	482.3	197.9	157.7	161.6	161.3	162.1	169.2	180.0	190.1	191.7
55°	1588.6	497.5	188.7	150.8	153.8	154.8	157.2	165.2	174.4	185.8	186.7
57.5°	1625.3	528.7	181.4	145.5	146.9	149.9	153.6	160.9	170.8	183.5	184.2
58°	1631.5	535.3	180.2	144.9	145.5	148.9	153.2	160.2	170.1	184.0	184.6
60°	1631.7	557.1	177.6	142.8	140.0	145.9	150.6	157.7	169.0	185.6	187.3
62.5°	1573.8	556.9	175.8	139.8	134.4	141.6	147.1	155.2	167.7	189.7	193.0
65°	1385.7	506.1	166.8	135.1	129.9	137.8	144.0	153.6	171.1	207.0	209.1
67.5°	1084.0	414.7	150.1	128.5	124.0	134.1	142.1	153.4	174.6	211.1	212.5
70°	716.6	310.3	131.7	121.0	117.9	129.7	143.0	161.3	170.6	202.5	198.9
72.5°	372.0	217.9	116.9	111.6	110.8	125.6	156.7	160.5	166.6	190.5	185.8
75°	195.2	151.4	104.1	101.2	102.3	124.7	184.9	156.2	161.3	182.4	191.3
77.5°	119.5	122.2	93.0	91.8	94.1	121.9	184.6	150.8	153.8	167.7	177.6
80°	80.0	99.1	84.4	84.6	86.4	111.6	165.8	142.4	144.7	158.5	168.7
82.5°	50.6	58.6	76.7	80.8	78.5	92.0	141.0	129.7	133.0	181.4	191.7
85°	25.6	36.7	66.5	77.7	70.8	64.5	114.4	113.6	115.3	130.8	136.7
87.5°	11.8	20.2	52.0	67.7	53.4	40.2	83.0	84.2	90.8	93.0	93.0
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)