

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: P199933

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199933
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: GWC-AF-01-LED-E1-AFL-7030-800
Description: GALLEON WALL 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: 5009.5 lumens
Efficiency: N/A
Efficacy: 113.9 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

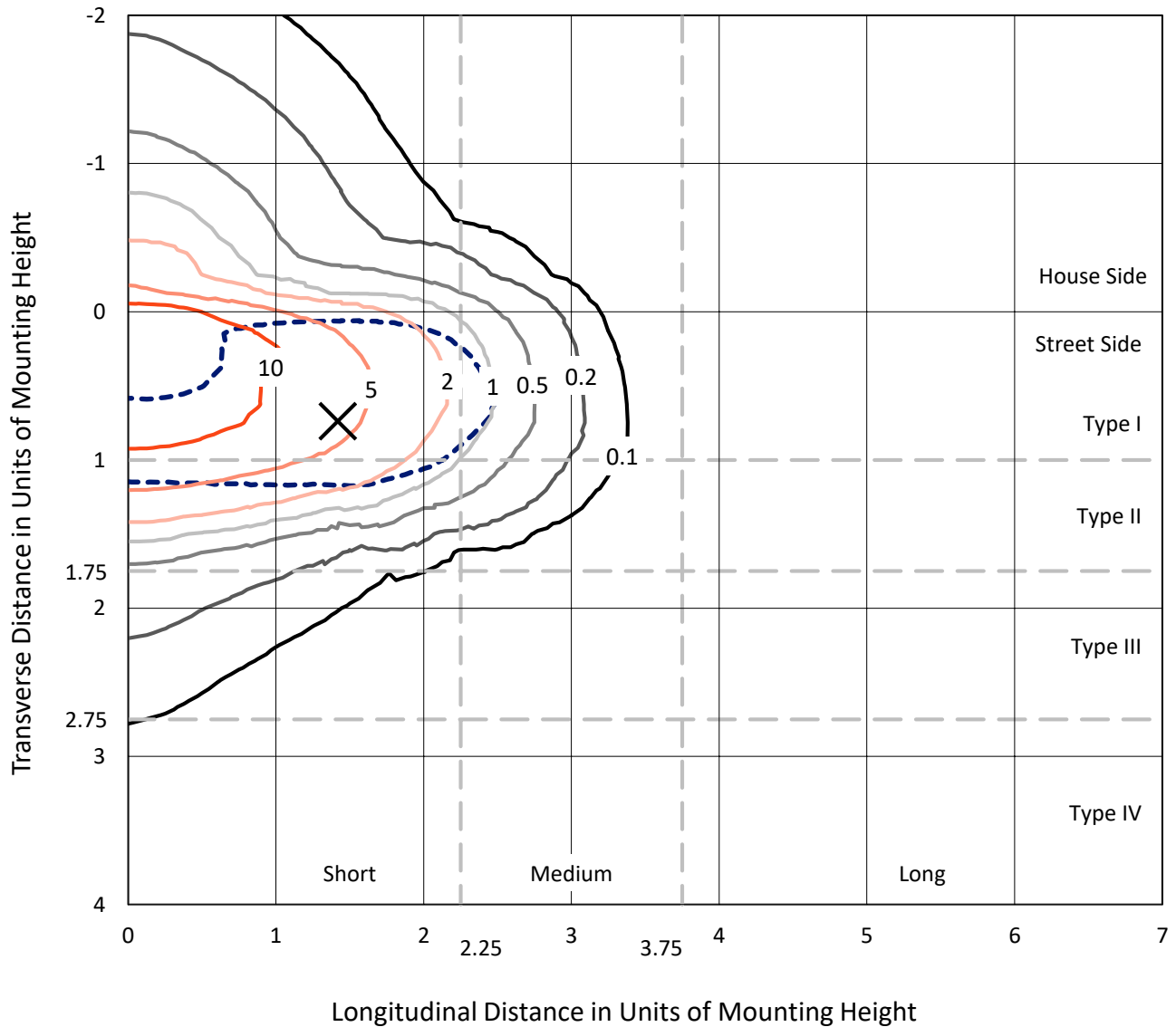


REPORT NUMBER: P199933

CATALOG NUMBER: GWC-AF-01-LED-E1-AFL-7030-800

Iso-Footcandle Lines of Horizontal Illumination

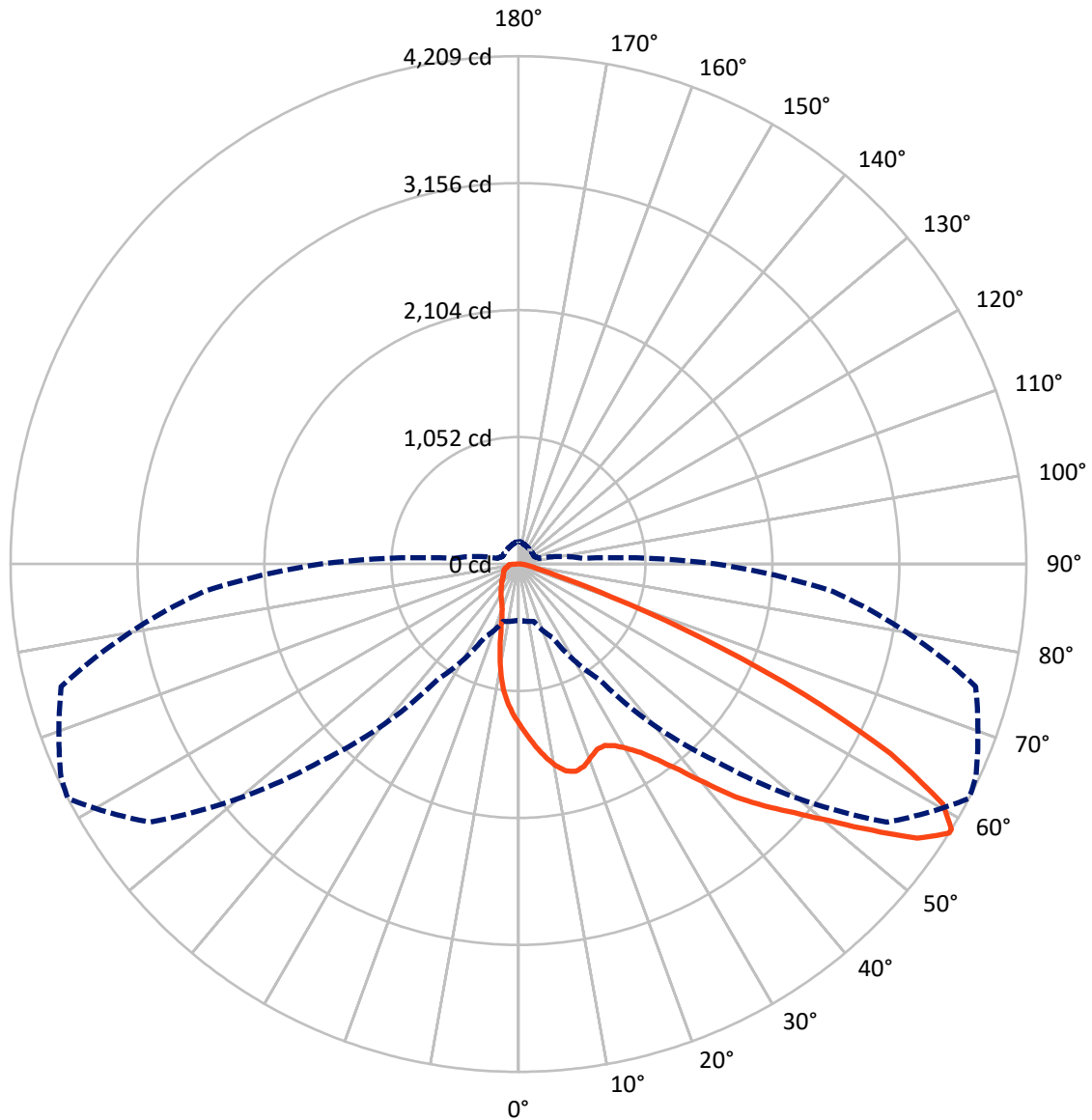
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P199933
CATALOG NUMBER: GWC-AF-01-LED-E1-AFL-7030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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CATALOG NUMBER: GWC-AF-01-LED-E1-AFL-7030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	764.0	0.0	764.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	4245.5	0.0	4245.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	5009.5	0.0	5009.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	2.4
10°-20°	304.2	6.1
20°-30°	491.8	9.8
30°-40°	780.7	15.6
40°-50°	1142.3	22.8
50°-60°	1194.7	23.8
60°-70°	705.8	14.1
70°-80°	198.8	4.0
80°-90°	72.2	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°	5009.5	100.0
0°-180°	5009.5	100.0



REPORT NUMBER: P199933

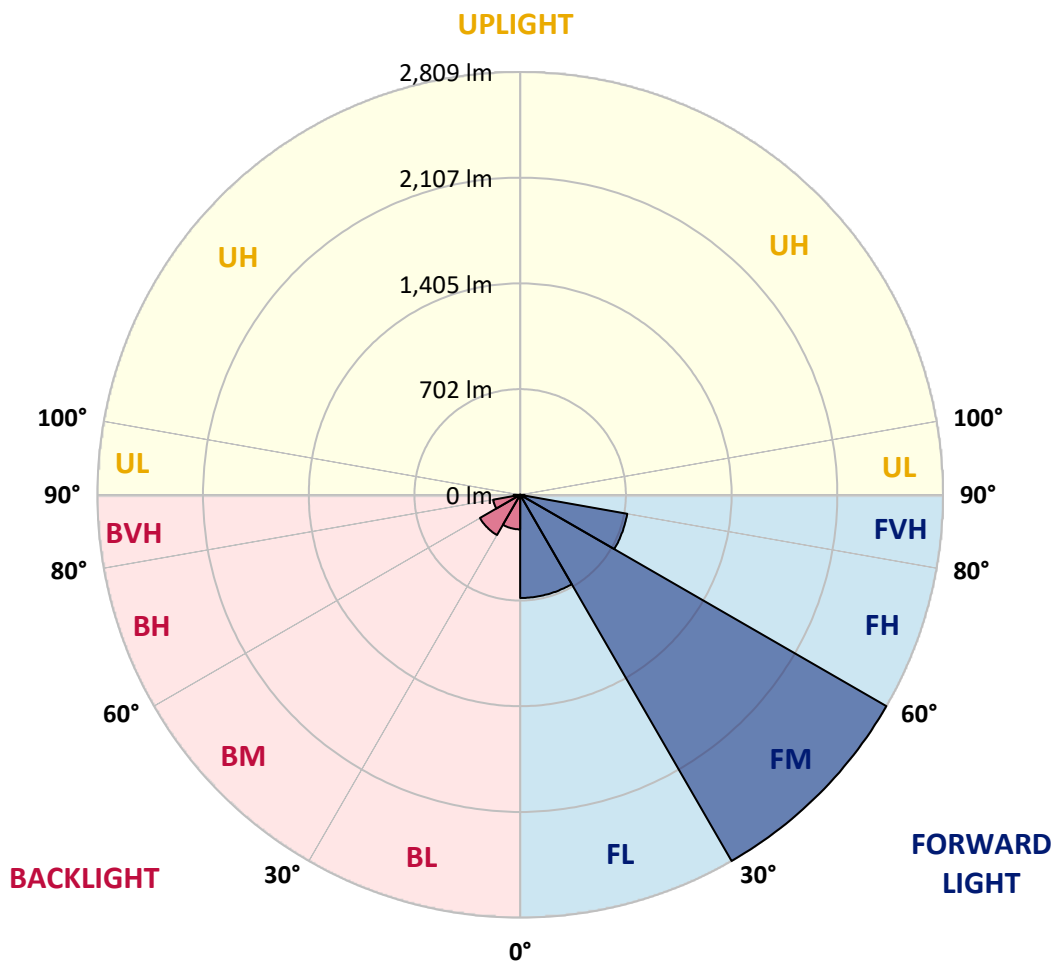
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.4	13.7			
FM (30°-60°)	2809.3	56.1			
FH (60°-80°)	722.4	14.4			G1/1800
FVH (80°-90°)	28.5	0.6			G1/100
BL (0°-30°)	229.6	4.6	B1/500		
BM (30°-60°)	308.4	6.2	B1/1000		
BH (60°-80°)	182.3	3.6	B1/500		G1/500
BVH (80°-90°)	43.7	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





REPORT NUMBER: P199933

CATALOG NUMBER: GWC-AF-01-LED-E1-AFL-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7
2.5°	1520.6	1508.3	1500.5	1493.7	1484.7	1465.6	1439.9	1423.6	1415.3	1387.3	1354.0
5°	1669.6	1658.8	1650.7	1641.6	1625.5	1595.5	1554.1	1521.0	1504.8	1448.6	1382.1
7.5°	1634.7	1639.3	1653.1	1677.4	1698.2	1694.1	1657.2	1615.2	1593.7	1515.6	1414.7
10°	1424.3	1432.1	1456.1	1513.0	1605.0	1699.4	1728.2	1699.1	1677.4	1581.9	1448.2
12.5°	1382.1	1381.9	1383.7	1398.9	1453.5	1586.4	1730.5	1759.8	1746.8	1645.2	1482.3
15°	1399.3	1399.7	1398.3	1404.8	1421.8	1474.3	1658.4	1783.1	1792.3	1708.9	1517.8
17.5°	1444.6	1443.4	1438.0	1438.0	1444.1	1464.6	1573.4	1761.4	1803.9	1765.1	1548.8
20°	1520.6	1515.1	1500.7	1487.5	1480.9	1492.0	1538.5	1711.4	1783.8	1814.4	1574.6
22.5°	1612.5	1608.3	1585.0	1556.7	1533.8	1533.6	1556.4	1667.7	1749.1	1860.9	1596.3
25°	1731.4	1724.6	1689.9	1644.6	1604.6	1589.2	1595.5	1665.7	1730.2	1911.4	1615.6
27.5°	1871.1	1858.6	1817.5	1752.2	1693.3	1662.3	1653.1	1704.1	1747.5	1973.9	1642.5
30°	2040.4	2026.0	1973.5	1888.3	1805.1	1754.3	1734.7	1772.2	1804.6	2050.1	1685.7
32.5°	2233.2	2212.4	2151.6	2057.7	1948.3	1870.8	1839.0	1862.3	1888.1	2141.9	1739.7
35°	2499.5	2474.8	2386.8	2257.3	2133.6	2027.2	1976.3	1993.3	2018.3	2278.8	1817.8
37.5°	2681.1	2670.0	2611.6	2489.8	2355.3	2233.0	2154.2	2164.0	2178.2	2449.7	1917.8
40°	2679.5	2684.0	2685.2	2686.4	2594.9	2477.6	2392.9	2382.5	2379.7	2637.5	2031.5
42.5°	2545.2	2563.7	2623.1	2743.6	2799.4	2745.5	2667.9	2638.0	2623.1	2858.8	2152.0
45°	2339.8	2349.8	2461.0	2696.5	2904.1	3011.0	2952.2	2857.8	2830.9	3062.1	2252.0
47.5°	2233.9	2244.7	2314.8	2571.4	2902.9	3225.3	3259.3	3079.6	3031.5	3239.1	2338.4
50°	1981.8	2004.3	2092.6	2353.9	2797.0	3323.9	3580.3	3343.8	3244.2	3411.3	2424.9
52.5°	1518.6	1553.5	1652.5	1996.4	2528.3	3275.2	3837.2	3664.1	3523.5	3589.6	2499.3
55°	958.0	983.9	1067.0	1409.9	2022.6	3021.0	3934.7	4010.6	3885.6	3758.5	2563.7
57.5°	520.8	532.4	563.6	778.5	1315.5	2459.4	3792.7	4207.8	4155.9	3901.9	2612.3
58°	466.1	473.9	493.2	674.6	1166.8	2305.8	3729.7	4208.5	4182.6	3922.8	2616.0
60°	345.9	341.8	324.6	384.9	649.4	1593.0	3349.0	4040.1	4116.3	3948.6	2597.6
62.5°	303.9	294.2	259.0	255.0	315.9	733.8	2562.5	3460.8	3640.8	3801.9	2485.8
65°	285.4	275.1	229.7	215.1	227.9	310.4	1509.5	2595.5	2821.3	3357.0	2199.9
67.5°	271.7	258.3	211.2	191.1	192.0	205.3	605.0	1634.7	1888.8	2548.8	1711.1
70°	258.5	243.9	195.3	172.2	166.8	162.3	240.6	818.3	1048.7	1609.9	1091.0
72.5°	244.4	230.0	181.4	157.4	146.7	131.9	157.1	334.7	467.5	761.7	494.9
75°	223.8	210.8	167.4	144.1	129.0	109.2	118.7	174.8	209.7	303.3	238.4
77.5°	198.6	188.0	151.9	133.3	114.4	88.7	91.3	121.3	134.5	173.6	141.8
80°	142.7	146.5	135.1	119.9	101.9	72.0	70.0	88.5	95.5	111.6	92.3
82.5°	100.2	102.4	111.8	97.8	84.2	56.6	51.7	62.3	66.5	73.4	49.7
85°	69.1	66.8	76.7	68.2	60.9	37.7	35.3	42.2	44.8	45.5	25.7
87.5°	41.6	41.6	44.4	36.5	32.8	19.5	19.1	24.1	25.7	24.5	14.2
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: P199933

CATALOG NUMBER: GWC-AF-01-LED-E1-AFL-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7
2.5°	1334.2	1317.5	1281.8	1253.3	1217.2	1179.7	1158.7	1136.3	1121.0	1109.8	1127.6
5°	1344.3	1310.2	1236.6	1166.8	1089.5	1009.4	948.5	891.9	852.5	828.0	851.1
7.5°	1360.4	1307.8	1190.5	1071.2	932.7	799.2	679.9	605.0	561.4	539.9	553.4
10°	1378.8	1304.0	1136.5	941.6	743.6	575.4	486.1	455.9	446.1	442.1	443.9
12.5°	1394.1	1296.0	1070.2	785.0	558.3	454.3	428.7	427.9	430.1	430.5	431.2
15°	1405.0	1284.2	971.8	621.8	446.5	413.9	412.6	416.8	420.8	422.4	423.4
17.5°	1412.3	1259.9	860.8	491.6	400.1	394.4	397.7	403.1	407.4	408.6	409.5
20°	1411.5	1224.2	728.4	410.0	374.9	374.9	380.5	384.7	384.9	383.6	384.3
22.5°	1404.2	1175.5	600.1	366.6	352.4	356.5	362.1	358.1	341.6	330.7	331.5
25°	1392.0	1117.1	490.2	339.0	331.7	338.8	337.0	306.9	283.3	272.7	272.7
27.5°	1381.2	1048.3	405.8	314.9	310.9	319.6	290.4	263.0	253.2	248.1	246.5
30°	1373.3	974.0	349.4	291.8	291.3	285.0	252.0	244.4	242.7	238.8	237.3
32.5°	1375.2	898.8	313.3	271.5	273.1	243.9	233.5	235.2	233.7	229.5	227.6
35°	1390.8	827.3	289.7	253.2	248.1	220.3	222.7	225.8	225.2	219.3	217.5
37.5°	1418.6	759.6	274.1	237.8	216.5	208.5	212.3	217.1	215.9	211.8	210.4
40°	1447.9	695.9	261.3	225.8	198.0	200.5	203.9	206.4	207.6	208.8	207.8
42.5°	1476.4	629.4	245.7	213.5	190.1	193.0	194.4	197.0	203.3	207.8	207.6
45°	1493.4	566.9	229.7	196.0	184.0	185.6	184.7	189.9	197.6	205.0	205.3
47.5°	1512.3	518.2	217.1	180.0	178.1	179.3	176.5	181.6	188.7	197.6	198.6
50°	1535.2	489.2	206.9	167.2	170.0	170.0	169.4	174.1	184.0	194.4	196.2
52.5°	1561.2	483.5	198.4	158.0	162.1	161.9	162.5	169.6	180.4	190.6	192.3
55°	1592.7	498.9	189.1	151.2	154.2	155.2	157.6	165.6	174.8	186.4	187.1
57.5°	1629.6	530.1	181.8	145.8	147.1	150.3	154.0	161.3	171.2	184.0	184.7
58°	1635.7	536.6	180.7	145.3	145.8	149.3	153.6	160.7	170.6	184.4	185.2
60°	1635.9	558.6	178.1	143.2	140.4	146.3	151.0	158.0	169.4	186.1	187.7
62.5°	1577.9	558.3	176.3	140.2	134.7	142.0	147.5	155.7	168.2	190.1	193.4
65°	1389.4	507.4	167.2	135.4	130.2	138.2	144.4	154.0	171.5	207.6	209.7
67.5°	1086.7	415.9	150.5	128.8	124.3	134.5	142.5	153.8	175.1	211.6	213.0
70°	718.6	311.2	132.1	121.3	118.1	130.0	143.4	161.9	171.0	203.1	199.3
72.5°	372.9	218.5	117.3	111.8	111.1	126.0	157.1	160.9	167.0	191.1	186.4
75°	195.8	151.7	104.3	101.4	102.6	125.0	185.4	156.6	161.9	182.8	191.8
77.5°	119.9	122.4	93.2	92.0	94.3	122.2	185.2	151.2	154.2	168.2	178.1
80°	80.2	99.4	84.6	85.0	86.6	111.8	166.3	142.7	145.1	159.0	169.2
82.5°	50.7	58.8	76.9	80.9	78.8	92.3	141.3	130.0	133.3	181.8	192.3
85°	25.7	36.8	66.8	77.9	71.0	64.7	114.6	114.0	115.6	131.1	137.1
87.5°	11.8	20.3	52.1	68.0	53.6	40.4	83.2	84.4	91.1	93.2	93.2
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)