

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: P270084

Luminaire Tested: **GWC-AF-01-LED-E1-AFL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270084
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-7027-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4500 lumens
Efficiency: N/A
Efficacy: 102.3 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

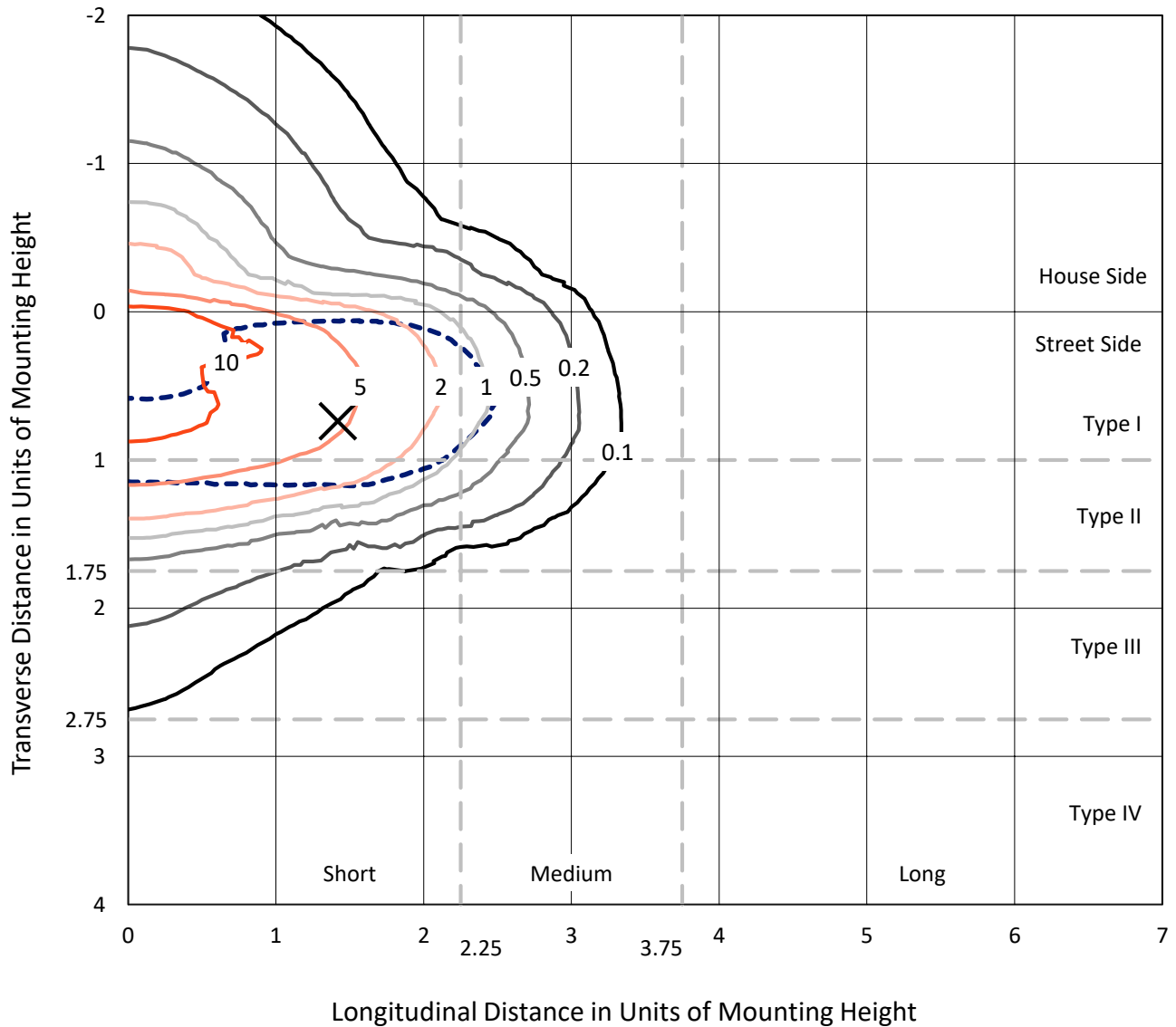


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Iso-Footcandle Lines of Horizontal Illumination

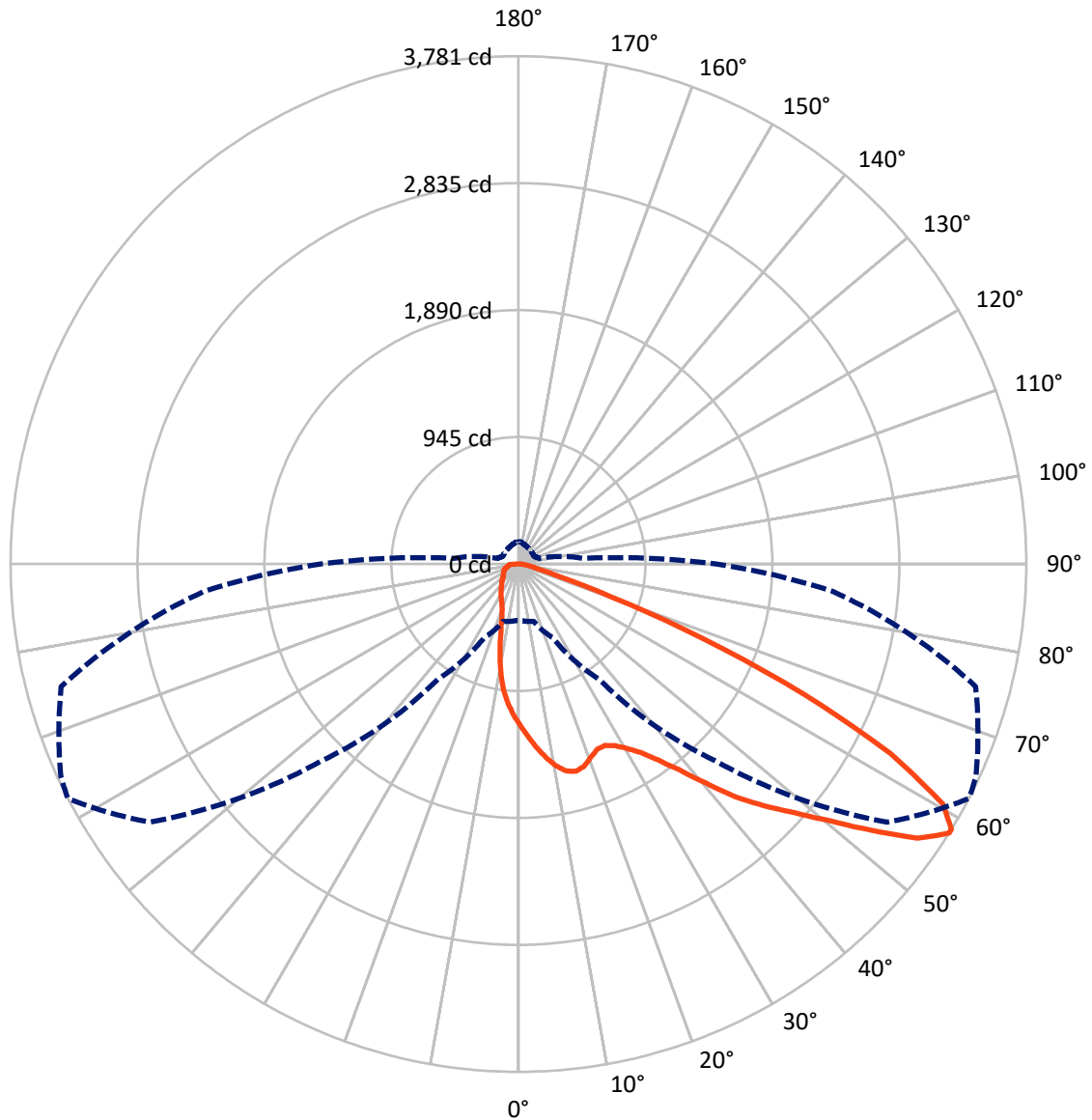
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	686.3	0.0	686.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	3813.8	0.0	3813.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	4500.0	0.0	4500.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	2.4
10°-20°	273.3	6.1
20°-30°	441.7	9.8
30°-40°	701.3	15.6
40°-50°	1026.1	22.8
50°-60°	1073.2	23.8
60°-70°	634.1	14.1
70°-80°	178.6	4.0
80°-90°	64.8	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°	4500.0	100.0
0°-180°	4500.0	100.0



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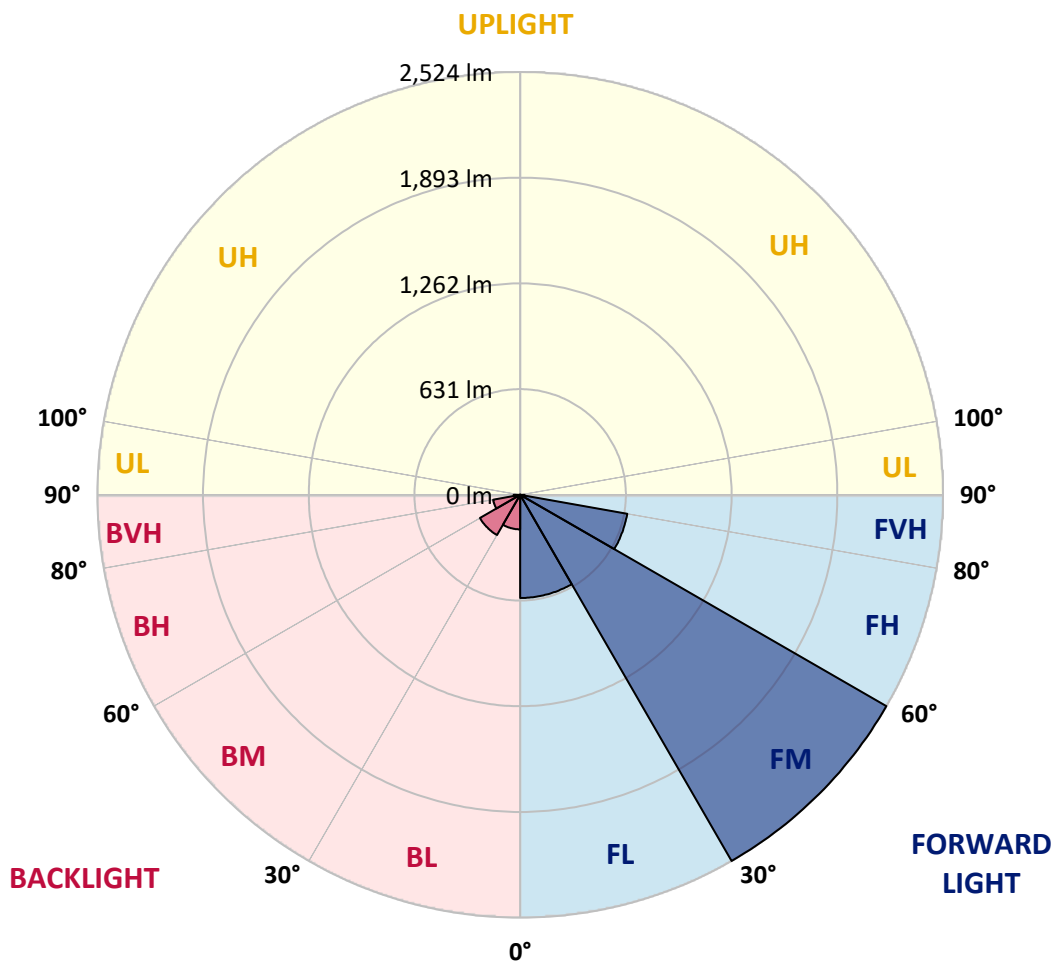
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	615.7	13.7			
FM	(30°-60°)	2523.6	56.1			
FH	(60°-80°)	648.9	14.4			G0/660
FVH	(80°-90°)	25.6	0.6			G1/100
BL	(0°-30°)	206.3	4.6	B1/500		
BM	(30°-60°)	277.0	6.2	B1/1000		
BH	(60°-80°)	163.8	3.6	B1/500		G1/500
BVH	(80°-90°)	39.3	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°	1195.4	1195.4	1195.4	1195.4	1195.4	1195.4	1195.4	1195.4	1195.4	1195.4	1195.4
2.5°	1366.0	1354.9	1347.9	1341.8	1333.7	1316.6	1293.5	1278.8	1271.4	1246.2	1216.3
5°	1499.8	1490.1	1482.8	1474.7	1460.2	1433.2	1396.1	1366.3	1351.8	1301.3	1241.5
7.5°	1468.5	1472.6	1485.0	1506.8	1525.5	1521.8	1488.7	1450.9	1431.6	1361.5	1270.8
10°	1279.5	1286.5	1308.0	1359.1	1441.8	1526.6	1552.5	1526.3	1506.8	1421.0	1300.9
12.5°	1241.5	1241.4	1243.0	1256.6	1305.7	1425.1	1554.5	1580.8	1569.2	1477.9	1331.6
15°	1257.0	1257.4	1256.1	1261.9	1277.2	1324.4	1489.7	1601.8	1610.0	1535.1	1363.4
17.5°	1297.7	1296.6	1291.8	1291.8	1297.2	1315.7	1413.4	1582.3	1620.5	1585.6	1391.3
20°	1366.0	1361.0	1348.1	1336.2	1330.3	1340.3	1382.0	1537.4	1602.4	1629.9	1414.5
22.5°	1448.5	1444.7	1423.8	1398.4	1377.8	1377.6	1398.1	1498.1	1571.2	1671.7	1434.0
25°	1555.3	1549.2	1518.0	1477.4	1441.4	1427.6	1433.2	1496.3	1554.2	1717.0	1451.3
27.5°	1680.8	1669.6	1632.7	1574.0	1521.1	1493.3	1485.0	1530.8	1569.8	1773.2	1475.5
30°	1832.9	1820.0	1772.8	1696.3	1621.5	1575.9	1558.3	1592.0	1621.1	1841.6	1514.3
32.5°	2006.1	1987.4	1932.8	1848.4	1750.2	1680.5	1652.0	1672.9	1696.1	1924.1	1562.8
35°	2245.3	2223.1	2144.1	2027.7	1916.6	1821.0	1775.3	1790.6	1813.0	2047.1	1632.9
37.5°	2408.4	2398.5	2346.0	2236.6	2115.8	2005.9	1935.1	1943.9	1956.7	2200.6	1722.8
40°	2407.0	2411.1	2412.1	2413.2	2331.0	2225.6	2149.6	2140.2	2137.7	2369.3	1824.9
42.5°	2286.4	2303.0	2356.3	2464.6	2514.7	2466.3	2396.6	2369.7	2356.3	2568.1	1933.2
45°	2101.9	2110.8	2210.7	2422.3	2608.8	2704.8	2652.0	2567.2	2543.0	2750.7	2023.0
47.5°	2006.7	2016.4	2079.4	2309.9	2607.7	2897.3	2927.8	2766.4	2723.2	2909.7	2100.6
50°	1780.3	1800.5	1879.8	2114.5	2512.6	2985.9	3216.2	3003.8	2914.3	3064.4	2178.3
52.5°	1364.2	1395.5	1484.4	1793.4	2271.2	2942.1	3447.0	3291.5	3165.2	3224.6	2245.1
55°	860.6	883.8	958.5	1266.5	1816.9	2713.8	3534.6	3602.7	3490.5	3376.3	2303.0
57.5°	467.8	478.3	506.3	699.3	1181.7	2209.3	3407.0	3779.9	3733.3	3505.1	2346.6
58°	418.7	425.7	443.0	606.0	1048.1	2071.3	3350.4	3780.5	3757.3	3523.9	2350.0
60°	310.7	307.0	291.6	345.8	583.4	1431.0	3008.4	3629.2	3697.7	3547.0	2333.4
62.5°	273.0	264.3	232.7	229.1	283.8	659.2	2301.9	3108.9	3270.5	3415.3	2233.0
65°	256.4	247.1	206.3	193.2	204.7	278.8	1356.0	2331.6	2534.4	3015.6	1976.2
67.5°	244.1	232.0	189.7	171.7	172.5	184.4	543.5	1468.5	1696.7	2289.6	1537.1
70°	232.2	219.1	175.4	154.7	149.8	145.8	216.1	735.1	942.1	1446.2	980.1
72.5°	219.5	206.6	163.0	141.4	131.8	118.5	141.1	300.7	420.0	684.2	444.6
75°	201.0	189.4	150.4	129.4	115.9	98.1	106.6	157.0	188.4	272.5	214.2
77.5°	178.4	168.9	136.5	119.7	102.8	79.7	82.0	109.0	120.8	155.9	127.4
80°	128.2	131.6	121.4	107.7	91.5	64.7	62.9	79.5	85.8	100.3	82.9
82.5°	90.0	92.0	100.4	87.9	75.6	50.8	46.4	56.0	59.7	65.9	44.6
85°	62.1	60.0	68.9	61.3	54.7	33.9	31.7	37.9	40.2	40.9	23.1
87.5°	37.4	37.4	39.9	32.8	29.5	17.5	17.2	21.6	23.1	22.0	12.8
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°	1195.4	1195.4	1195.4	1195.4	1195.4	1195.4	1195.4	1195.4	1195.4	1195.4	1195.4
2.5°	1198.5	1183.5	1151.4	1125.8	1093.4	1059.7	1040.9	1020.7	1007.0	996.9	1012.9
5°	1207.6	1177.0	1110.8	1048.1	978.7	906.7	852.0	801.2	765.8	743.8	764.5
7.5°	1222.1	1174.8	1069.4	962.3	837.8	717.9	610.8	543.5	504.3	485.0	497.1
10°	1238.6	1171.4	1020.9	845.8	668.0	516.9	436.7	409.5	400.7	397.1	398.8
12.5°	1252.3	1164.2	961.4	705.2	501.5	408.1	385.1	384.4	386.4	386.7	387.3
15°	1262.1	1153.6	873.0	558.6	401.1	371.8	370.6	374.4	378.0	379.4	380.3
17.5°	1268.7	1131.8	773.3	441.6	359.4	354.3	357.3	362.1	366.0	367.0	367.9
20°	1268.0	1099.7	654.3	368.3	336.8	336.8	341.8	345.6	345.8	344.6	345.2
22.5°	1261.4	1056.0	539.1	329.3	316.6	320.2	325.3	321.7	306.9	297.1	297.8
25°	1250.4	1003.5	440.3	304.5	298.0	304.3	302.7	275.7	254.5	245.0	245.0
27.5°	1240.7	941.7	364.5	282.9	279.3	287.1	260.9	236.3	227.5	222.9	221.4
30°	1233.6	874.9	313.9	262.1	261.7	256.0	226.4	219.5	218.0	214.5	213.2
32.5°	1235.3	807.4	281.4	243.9	245.3	219.1	209.8	211.3	209.9	206.2	204.5
35°	1249.4	743.2	260.2	227.5	222.9	197.9	200.1	202.8	202.3	197.0	195.4
37.5°	1274.3	682.4	246.2	213.6	194.5	187.3	190.7	195.0	193.9	190.3	189.0
40°	1300.7	625.1	234.7	202.8	177.9	180.1	183.2	185.4	186.5	187.6	186.7
42.5°	1326.3	565.4	220.7	191.8	170.8	173.4	174.6	177.0	182.6	186.7	186.5
45°	1341.5	509.2	206.3	176.1	165.3	166.7	165.9	170.6	177.5	184.2	184.4
47.5°	1358.5	465.5	195.0	161.7	160.0	161.1	158.6	163.1	169.5	177.5	178.4
50°	1379.1	439.5	185.9	150.2	152.7	152.7	152.2	156.4	165.3	174.6	176.2
52.5°	1402.4	434.3	178.2	141.9	145.6	145.4	146.0	152.4	162.1	171.2	172.7
55°	1430.7	448.2	169.9	135.8	138.5	139.4	141.6	148.8	157.0	167.4	168.1
57.5°	1463.9	476.2	163.3	131.0	132.1	135.0	138.3	144.9	153.8	165.3	165.9
58°	1469.4	482.0	162.3	130.5	131.0	134.1	138.0	144.4	153.3	165.6	166.4
60°	1469.5	501.8	160.0	128.6	126.1	131.4	135.6	141.9	152.2	167.2	168.6
62.5°	1417.4	501.5	158.4	125.9	121.0	127.6	132.5	139.9	151.1	170.8	173.7
65°	1248.1	455.8	150.2	121.6	117.0	124.1	129.7	138.3	154.1	186.5	188.4
67.5°	976.2	373.6	135.2	115.7	111.7	120.8	128.0	138.2	157.3	190.1	191.3
70°	645.5	279.6	118.7	109.0	106.1	116.8	128.8	145.4	153.6	182.4	179.0
72.5°	335.0	196.3	105.4	100.4	99.8	113.2	141.1	144.5	150.0	171.7	167.4
75°	175.9	136.3	93.7	91.1	92.2	112.3	166.5	140.7	145.4	164.2	172.3
77.5°	107.7	110.0	83.7	82.6	84.7	109.8	166.4	135.8	138.5	151.1	160.0
80°	72.0	89.3	76.0	76.4	77.8	100.4	149.4	128.2	130.3	142.8	152.0
82.5°	45.5	52.8	69.1	72.7	70.8	82.9	126.9	116.8	119.7	163.3	172.7
85°	23.1	33.1	60.0	70.0	63.8	58.1	102.9	102.4	103.8	117.8	123.2
87.5°	10.6	18.2	46.8	61.1	48.1	36.3	74.7	75.8	81.8	83.7	83.7
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)