

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: P270183

Luminaire Tested: **GWC-AF-01-LED-E1-T4FT-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7027-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4489.3 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

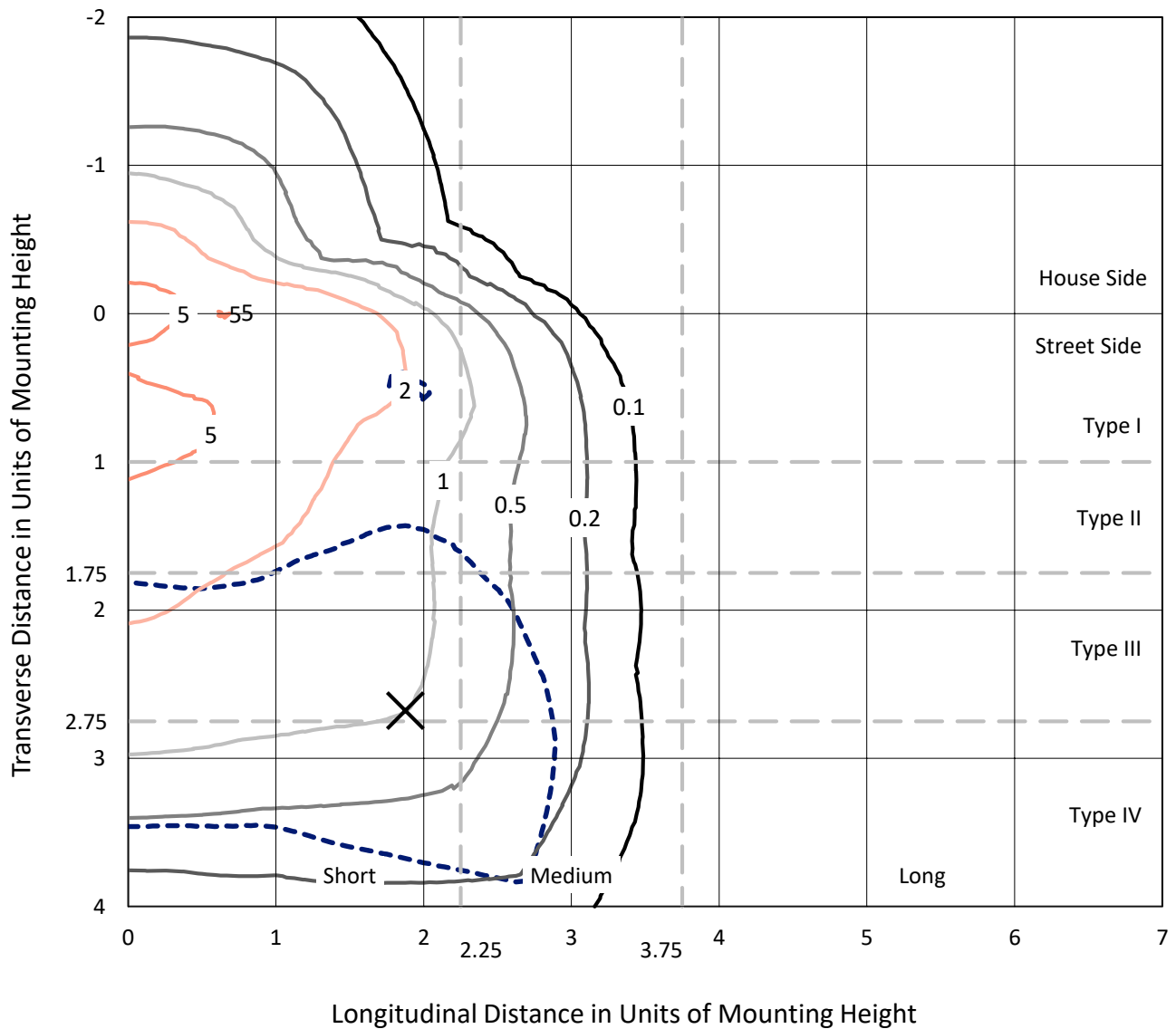
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

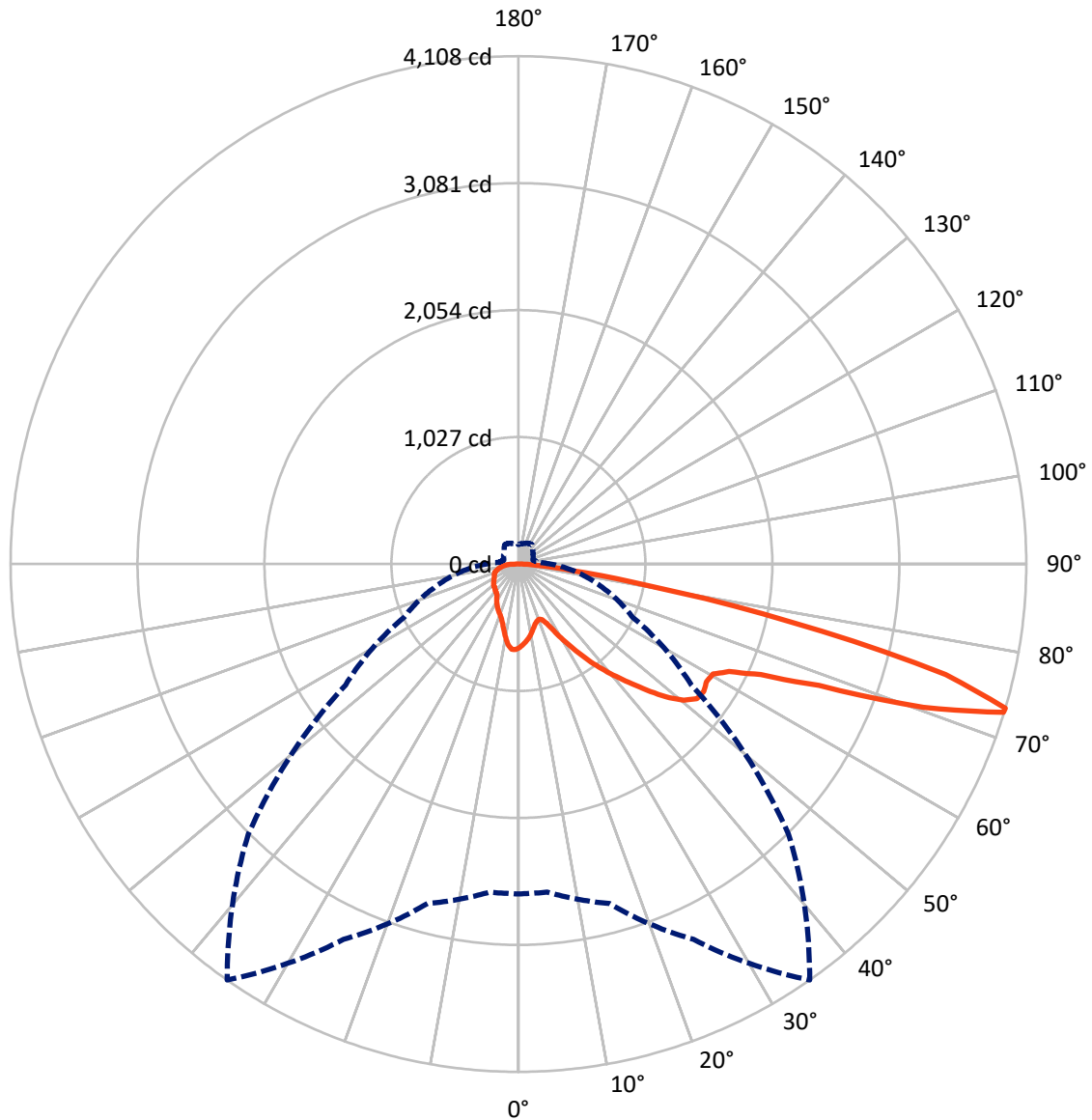
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	856.2	0.0	856.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	3633.1	0.0	3633.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	4489.3	0.0	4489.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.4
10°-20°	153.1	3.4
20°-30°	247.5	5.5
30°-40°	415.0	9.2
40°-50°	639.7	14.3
50°-60°	858.3	19.1
60°-70°	1143.4	25.5
70°-80°	872.1	19.4
80°-90°	98.8	2.2
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°	4489.3	100.0
0°-180°	4489.3	100.0



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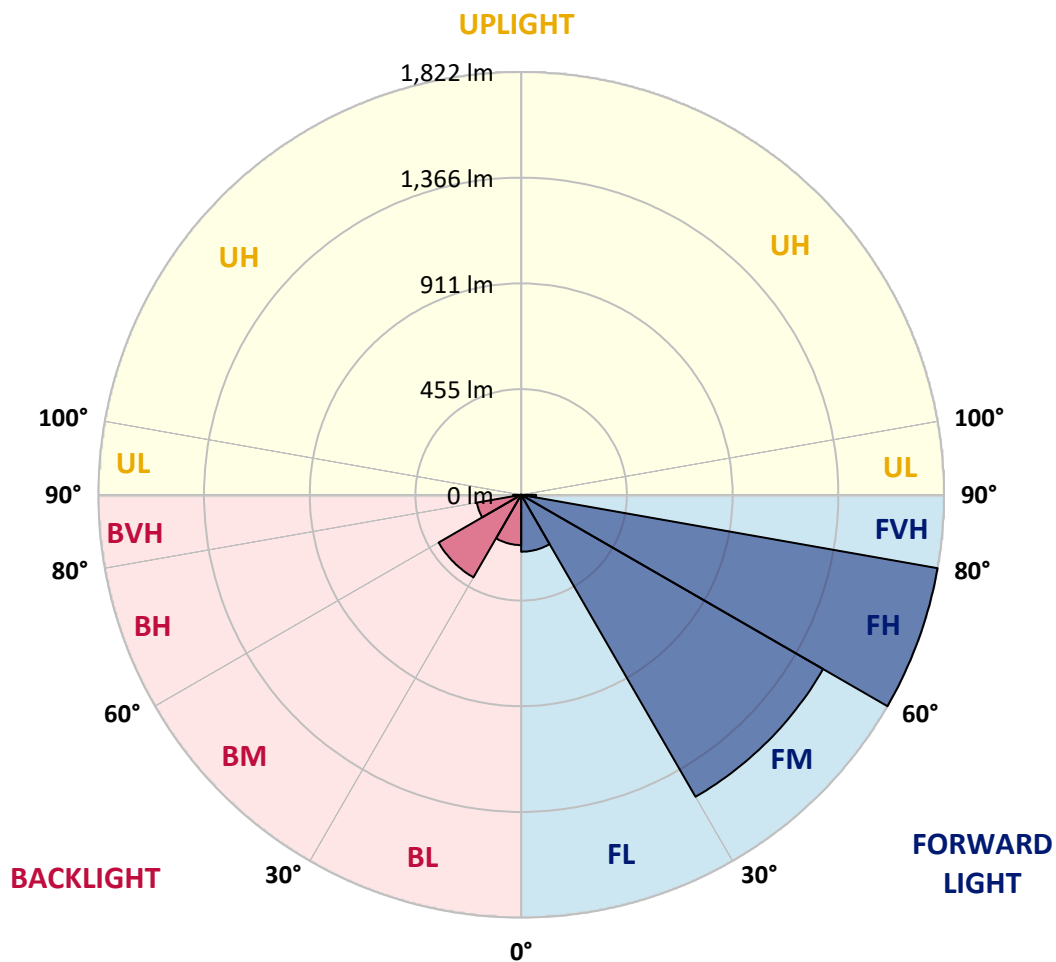
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	245.3	5.5			
FM	(30°-60°)	1502.1	33.5			
FH	(60°-80°)	1821.8	40.6			G2/5000
FVH	(80°-90°)	63.9	1.4			G1/100
BL	(0°-30°)	216.7	4.8	B1/500		
BM	(30°-60°)	410.9	9.2	B1/1000		
BH	(60°-80°)	193.7	4.3	B1/500		G1/500
BVH	(80°-90°)	34.9	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6
2.5°	650.8	652.1	650.6	652.6	655.9	659.3	661.6	665.0	669.0	674.4	675.6
5°	620.2	622.2	622.2	625.6	631.9	637.4	642.6	648.2	656.4	665.7	669.3
7.5°	586.7	587.8	589.6	594.8	603.8	611.8	619.1	628.3	639.5	651.7	658.2
10°	546.1	547.5	550.7	557.9	570.2	581.3	591.8	604.3	618.6	633.8	642.0
12.5°	517.5	517.0	518.2	523.6	534.4	547.7	563.1	579.0	596.6	614.4	624.3
15°	507.7	505.3	500.4	499.1	504.8	518.2	535.8	555.5	576.4	598.0	610.3
17.5°	513.7	509.7	496.0	486.2	485.3	495.4	514.2	536.2	560.4	586.7	602.0
20°	551.6	541.9	508.6	485.5	477.4	482.5	498.9	522.2	550.7	585.5	605.2
22.5°	642.5	628.3	557.3	514.4	487.4	481.4	493.7	518.5	551.6	598.9	624.0
25°	774.6	754.3	640.9	586.4	530.8	498.6	501.4	526.9	567.0	629.9	660.2
27.5°	878.9	865.7	750.3	687.9	609.7	545.2	526.6	548.0	598.2	680.8	711.6
30°	941.1	933.0	867.0	803.1	710.3	619.4	574.9	587.8	647.1	751.3	776.8
32.5°	1013.0	1008.3	976.0	917.1	819.0	716.8	651.5	647.0	712.7	836.1	847.7
35°	1087.6	1086.1	1067.1	1024.8	935.7	845.2	753.0	722.3	784.1	923.9	916.7
37.5°	1157.0	1154.4	1143.5	1118.8	1057.7	983.3	856.5	799.9	861.0	1008.1	975.5
40°	1284.8	1264.6	1226.8	1208.3	1180.9	1099.4	938.6	872.1	940.9	1088.2	1026.5
42.5°	1440.7	1407.7	1337.4	1312.1	1308.1	1191.2	994.8	942.1	1021.3	1167.7	1076.3
45°	1563.4	1532.4	1471.8	1439.7	1453.8	1274.1	1050.9	1016.9	1103.9	1251.2	1127.9
47.5°	1694.3	1645.5	1565.3	1575.1	1606.1	1352.6	1108.2	1097.3	1194.7	1344.7	1192.0
50°	1699.1	1661.8	1626.7	1684.5	1732.8	1424.8	1180.2	1181.6	1305.7	1462.1	1277.1
52.5°	1600.5	1592.5	1648.3	1739.6	1809.1	1481.9	1261.8	1268.6	1447.9	1597.0	1370.6
55°	1565.9	1556.9	1621.4	1720.3	1819.4	1529.2	1350.4	1362.9	1619.6	1739.3	1461.8
57.5°	1650.0	1630.1	1634.3	1711.4	1794.3	1580.8	1447.0	1472.2	1806.3	1863.8	1520.6
60°	1885.1	1842.2	1760.7	1758.7	1807.8	1658.5	1558.6	1589.6	2000.3	1923.2	1497.7
62.5°	2214.7	2171.8	2019.1	1919.8	1912.4	1786.5	1695.8	1703.9	2112.5	1842.6	1358.1
65°	2571.5	2533.1	2362.5	2222.1	2154.6	1998.6	1855.1	1755.1	2075.9	1620.7	1114.1
67.5°	3004.7	2963.4	2816.7	2687.2	2622.2	2341.1	1967.0	1706.2	1843.2	1255.6	800.8
70°	3307.5	3265.3	3207.7	3312.6	3471.9	2835.0	1981.4	1507.1	1376.7	834.5	482.0
72.5°	2912.2	2892.7	2998.2	3440.2	4103.7	3134.5	1791.0	1097.3	799.6	443.0	279.0
73°	2668.2	2664.0	2843.8	3350.8	4108.4	3088.5	1707.6	1019.9	685.8	391.9	254.9
75°	1204.8	1239.7	1633.7	2559.5	3569.3	2545.0	1201.8	585.1	387.3	270.7	192.4
77.5°	289.6	301.7	511.1	1215.4	2254.1	1516.6	544.6	289.3	247.8	191.2	140.6
80°	123.2	127.4	196.8	449.1	1061.3	610.8	250.9	193.9	171.3	133.5	98.5
82.5°	68.5	72.9	111.7	203.7	428.3	208.2	153.2	134.9	112.7	80.4	64.0
85°	38.7	41.2	65.3	113.8	181.5	83.6	91.6	89.7	63.6	41.4	31.5
87.5°	18.3	19.9	31.5	52.8	71.1	32.8	46.5	51.4	39.9	25.2	16.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6
2.5°	677.1	681.0	685.5	687.9	690.1	692.7	695.3	695.3	695.6	695.8
5°	672.4	680.3	687.6	690.4	691.2	691.2	690.4	687.1	684.0	685.3
7.5°	662.5	674.1	680.1	679.1	670.9	661.4	653.4	643.7	638.8	637.8
10°	648.2	661.6	662.7	651.9	631.7	611.3	594.6	578.1	570.5	568.4
12.5°	632.5	644.9	637.8	615.7	583.2	553.6	532.2	515.6	508.4	506.5
15°	619.8	628.3	610.8	575.9	534.9	503.6	486.0	473.6	468.5	466.9
17.5°	613.2	614.8	582.9	535.7	492.2	466.1	455.1	449.2	447.4	446.3
20°	616.3	604.3	556.4	498.4	457.2	438.9	436.3	434.8	434.4	433.7
22.5°	632.5	601.1	532.1	463.0	426.6	418.7	420.9	420.5	420.1	419.8
25°	661.4	603.8	508.4	429.4	401.0	399.2	403.1	403.1	401.5	401.5
27.5°	699.6	609.7	481.9	397.5	377.6	377.8	380.9	380.1	378.1	376.7
30°	746.1	613.4	450.8	368.8	355.9	355.1	355.9	352.2	346.4	345.9
32.5°	793.7	608.8	414.7	343.4	332.8	330.9	330.2	325.0	318.4	316.5
35°	837.0	592.3	378.1	323.2	310.9	306.5	309.6	307.8	301.8	300.4
37.5°	868.3	561.4	345.2	305.2	295.2	294.0	296.0	296.6	289.6	288.0
40°	889.5	519.6	316.9	290.2	292.0	288.0	281.6	276.9	274.9	274.3
42.5°	906.5	476.0	293.1	283.1	292.8	280.9	266.8	259.6	263.5	265.2
45°	926.2	433.5	273.4	274.3	289.6	272.7	256.7	249.6	251.2	251.5
47.5°	953.1	381.8	252.1	260.0	278.7	267.1	250.4	240.3	233.3	230.1
50°	990.4	320.5	229.7	244.0	268.1	263.1	240.7	230.1	216.9	213.8
52.5°	1016.3	263.5	211.6	230.7	258.7	254.8	233.0	219.0	205.3	202.7
55°	1002.2	218.7	195.6	215.9	246.1	244.7	226.6	207.8	197.1	194.9
57.5°	932.3	190.6	183.3	201.8	230.9	236.1	218.0	198.3	190.6	189.1
60°	798.6	173.0	175.4	192.2	218.4	227.5	209.3	193.1	187.9	186.8
62.5°	619.7	161.1	169.7	185.4	208.6	221.4	204.5	192.4	190.6	189.4
65°	443.9	151.5	163.4	178.6	199.9	215.9	202.8	191.7	192.1	191.0
67.5°	301.7	143.1	155.9	170.8	191.2	210.8	200.5	188.6	194.0	192.7
70°	211.0	134.9	147.1	160.8	180.4	203.9	196.2	184.2	183.7	178.6
72.5°	164.7	124.1	134.9	147.1	166.6	194.3	187.6	174.0	166.8	161.4
73°	157.2	121.6	132.0	144.0	163.6	191.9	185.2	171.1	163.2	158.2
75°	130.0	110.4	119.8	130.7	150.6	180.6	173.6	158.5	148.3	145.3
77.5°	102.1	94.4	103.5	113.1	132.8	164.3	156.2	141.8	136.3	133.7
80°	75.6	78.2	86.2	94.9	115.2	146.9	139.6	125.3	150.2	144.0
82.5°	53.3	59.3	66.7	74.4	96.6	129.7	121.1	106.3	110.0	91.4
85°	31.5	38.7	45.8	52.5	69.6	107.5	100.0	84.7	69.3	66.1
87.5°	18.3	21.6	23.4	30.5	47.9	81.0	70.4	62.7	36.0	24.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)