

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: P269035

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269035
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: GLEON-AF-01-LED-E1-T4FT-7027-800
Description: GALLEON AREA AND ROADWAY 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: 4401 lumens
Efficiency: N/A
Efficacy: 100.0 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 - 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

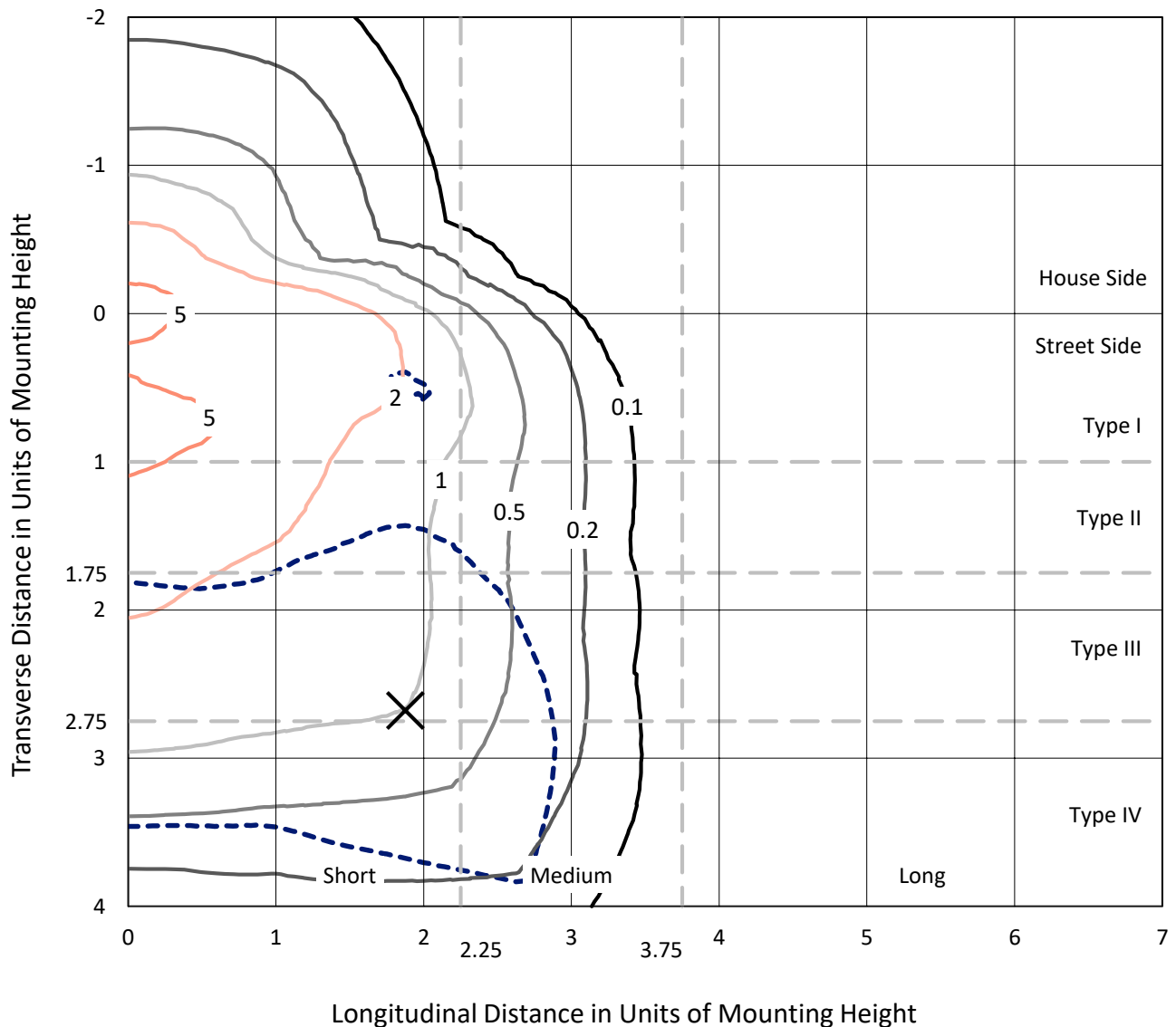


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

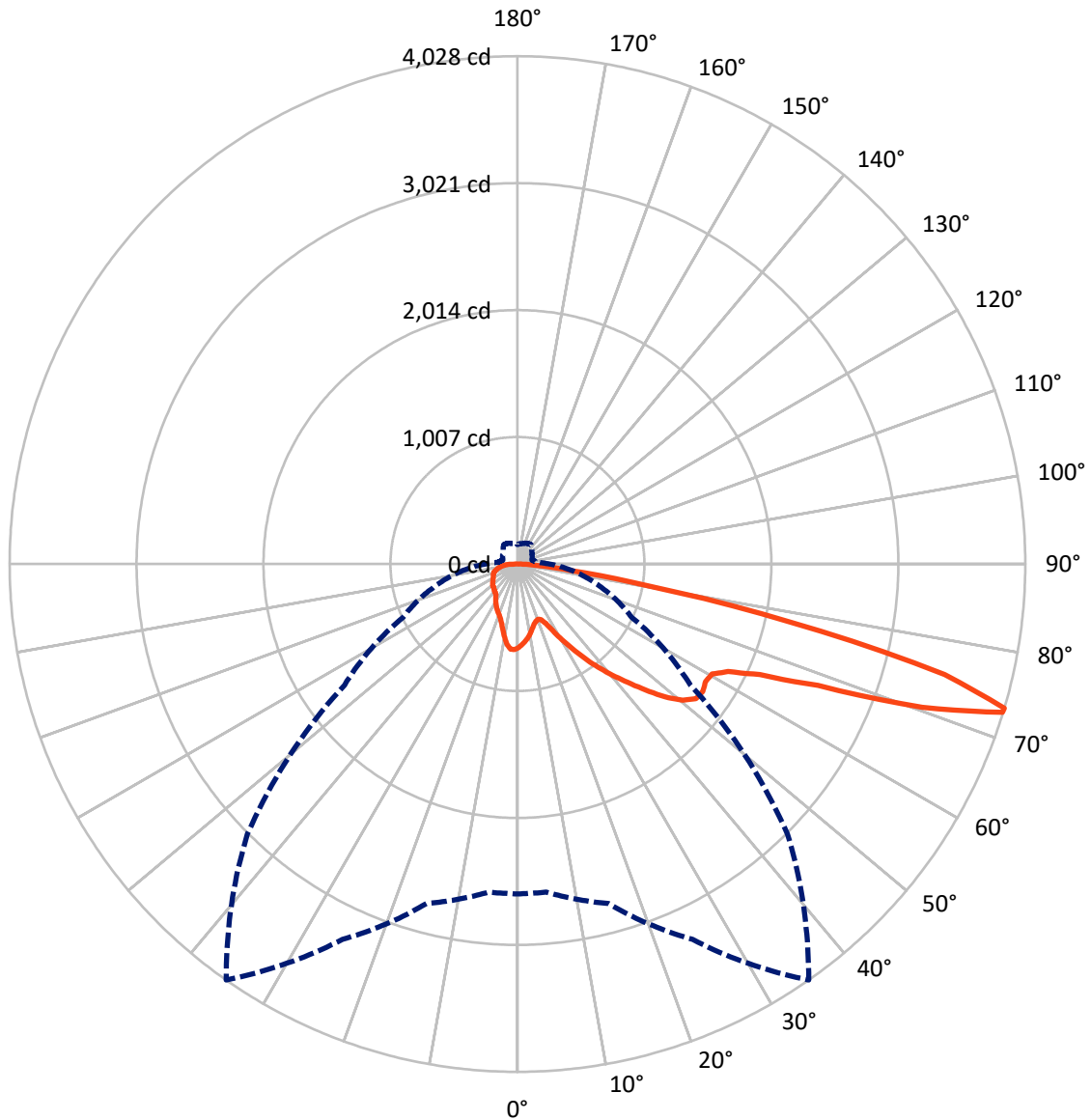


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Non-Cutoff

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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	839.4	0.0	839.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	3561.6	0.0	3561.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	4401.0	0.0	4401.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	1.4
10°-20°	150.1	3.4
20°-30°	242.6	5.5
30°-40°	406.9	9.2
40°-50°	627.1	14.3
50°-60°	841.4	19.1
60°-70°	1120.9	25.5
70°-80°	854.9	19.4
80°-90°	96.9	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°	4401.0	100.0
0°-180°	4401.0	100.0



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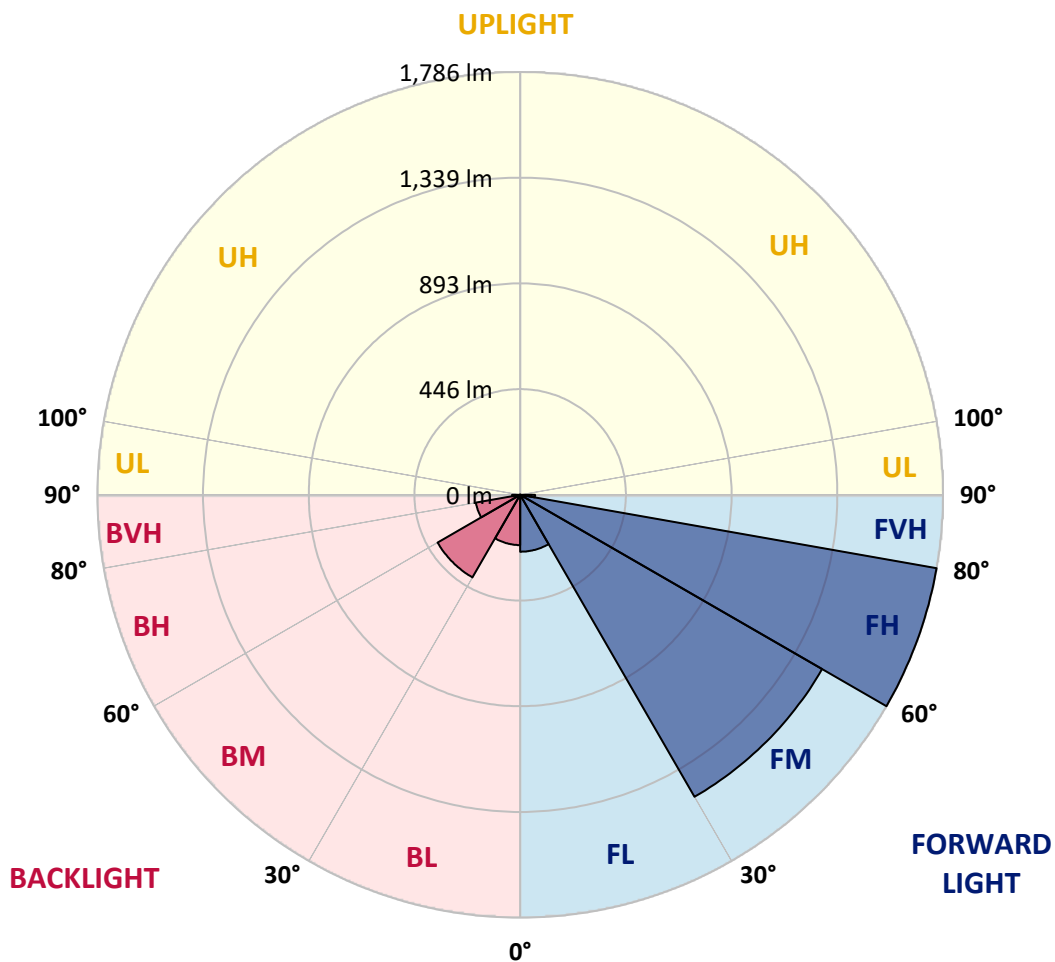
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	240.4	5.5			
FM	(30°-60°)	1472.6	33.5			
FH	(60°-80°)	1785.9	40.6			G1/1800
FVH	(80°-90°)	62.6	1.4			G1/100
BL	(0°-30°)	212.4	4.8	B1/500		
BM	(30°-60°)	402.8	9.2	B1/1000		
BH	(60°-80°)	189.9	4.3	B1/500		G1/500
BVH	(80°-90°)	34.3	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2
2.5°	638.1	639.4	637.8	639.8	642.8	646.3	648.5	652.0	655.9	661.1	662.3
5°	608.1	609.9	609.9	613.4	619.4	625.0	630.0	635.6	643.5	652.6	656.2
7.5°	575.0	576.2	578.0	583.1	592.0	599.8	607.0	615.9	626.8	638.9	645.3
10°	535.3	536.7	539.7	547.0	558.9	569.7	580.1	592.4	606.4	621.4	629.4
12.5°	507.3	506.9	508.0	513.3	523.9	536.9	552.0	567.6	584.7	602.4	612.0
15°	497.8	495.3	490.6	489.2	495.0	508.0	525.4	544.6	565.2	586.2	598.4
17.5°	503.6	499.5	486.3	476.6	475.7	485.7	504.0	525.6	549.3	575.0	590.0
20°	540.8	531.3	498.6	475.9	468.1	473.0	489.0	511.9	539.7	573.9	593.2
22.5°	629.8	615.9	546.3	504.3	477.9	471.9	483.9	508.4	540.8	587.1	611.7
25°	759.3	739.5	628.4	574.8	520.3	488.9	491.6	516.5	555.8	617.6	647.0
27.5°	861.7	848.8	735.4	674.4	597.6	534.5	516.3	537.2	586.5	667.4	697.7
30°	922.5	914.7	849.9	787.3	696.4	607.2	563.6	576.2	634.5	736.5	761.5
32.5°	993.0	988.5	956.8	899.1	802.8	702.7	638.6	634.3	698.7	819.6	831.0
35°	1066.2	1064.8	1046.2	1004.8	917.2	828.6	738.1	708.3	768.6	905.9	898.7
37.5°	1134.3	1131.8	1120.9	1096.9	1036.9	963.9	839.6	784.1	844.0	988.2	956.3
40°	1259.7	1239.8	1202.7	1184.5	1157.7	1077.8	920.1	854.8	922.3	1066.8	1006.2
42.5°	1412.3	1380.1	1311.2	1286.3	1282.4	1167.6	975.1	923.5	1001.2	1144.8	1055.1
45°	1532.7	1502.1	1442.8	1411.3	1425.3	1249.1	1030.3	996.8	1082.3	1226.6	1105.8
47.5°	1661.0	1613.1	1534.6	1544.0	1574.5	1326.0	1086.5	1075.7	1171.2	1318.2	1168.4
50°	1665.5	1628.9	1594.5	1651.4	1698.8	1396.8	1156.8	1158.4	1280.1	1433.3	1252.0
52.5°	1569.0	1561.2	1616.0	1705.3	1773.6	1452.7	1237.0	1243.8	1419.3	1565.6	1343.8
55°	1535.2	1526.3	1589.6	1686.5	1783.8	1499.0	1323.8	1336.0	1587.8	1705.2	1433.1
57.5°	1617.6	1597.9	1602.1	1677.7	1759.1	1549.8	1418.6	1443.2	1770.7	1827.1	1490.6
60°	1848.0	1806.0	1726.1	1724.0	1772.3	1625.8	1527.9	1558.2	1961.0	1885.4	1468.2
62.5°	2171.2	2129.1	1979.4	1881.9	1874.9	1751.3	1662.5	1670.4	2071.0	1806.3	1331.5
65°	2520.9	2483.3	2316.1	2178.5	2112.2	1959.4	1818.6	1720.6	2035.0	1588.8	1092.2
67.5°	2945.5	2905.1	2761.4	2634.4	2570.5	2294.9	1928.2	1672.6	1807.0	1230.9	785.1
70°	3242.4	3201.2	3144.5	3247.5	3403.7	2779.1	1942.4	1477.5	1349.7	818.0	472.6
72.5°	2855.1	2835.8	2939.2	3372.5	4023.1	3072.9	1755.7	1075.7	784.0	434.3	273.4
73°	2615.8	2611.6	2787.8	3284.8	4027.6	3027.6	1674.0	999.9	672.3	384.2	250.0
75°	1181.2	1215.1	1601.6	2509.1	3499.2	2494.9	1178.2	573.6	379.8	265.4	188.7
77.5°	283.9	295.6	501.1	1191.5	2209.8	1486.8	533.9	283.7	242.8	187.4	137.8
80°	120.9	125.0	193.0	440.2	1040.4	598.7	246.0	190.0	168.1	130.9	96.6
82.5°	67.3	71.4	109.5	199.8	420.0	204.2	150.0	132.3	110.5	78.8	62.8
85°	38.1	40.3	64.0	111.6	178.0	81.9	89.8	87.9	62.3	40.6	30.8
87.5°	18.0	19.5	30.8	51.8	69.8	32.1	45.6	50.2	39.0	24.8	16.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2
2.5°	663.8	667.6	672.0	674.4	676.6	678.9	681.5	681.5	682.1	682.3
5°	659.1	667.0	674.0	677.0	677.5	677.5	677.0	673.5	670.6	671.8
7.5°	649.5	660.9	666.8	665.7	657.6	648.3	640.6	631.1	626.2	625.4
10°	635.6	648.5	649.7	639.1	619.2	599.3	582.9	566.8	559.3	557.3
12.5°	620.1	632.0	625.4	603.7	571.7	542.8	521.7	505.6	498.3	496.5
15°	607.7	615.9	598.7	564.5	524.3	493.7	476.3	464.3	459.3	457.7
17.5°	601.1	602.8	571.4	525.1	482.5	456.9	446.2	440.3	438.6	437.5
20°	604.2	592.4	545.5	488.6	448.3	430.3	427.8	426.2	425.8	425.2
22.5°	620.1	589.2	521.6	454.0	418.3	410.4	412.5	412.3	412.0	411.5
25°	648.3	592.0	498.3	420.9	393.1	391.4	395.3	395.3	393.5	393.5
27.5°	685.8	597.6	472.4	389.8	370.3	370.6	373.4	372.5	370.7	369.5
30°	731.4	601.2	442.0	361.6	348.9	348.1	348.9	345.3	339.6	339.2
32.5°	778.1	596.8	406.7	336.7	326.4	324.4	323.7	318.7	312.2	310.3
35°	820.4	580.6	370.7	316.8	304.7	300.6	303.4	301.8	295.9	294.5
37.5°	851.2	550.3	338.3	299.2	289.3	288.3	290.2	290.8	283.9	282.3
40°	872.0	509.2	310.6	284.5	286.4	282.3	276.0	271.6	269.4	268.9
42.5°	888.8	466.6	287.4	277.4	287.0	275.4	261.6	254.5	258.3	260.0
45°	907.8	425.0	268.0	268.9	283.9	267.3	251.7	244.7	246.2	246.7
47.5°	934.3	374.2	247.0	254.8	273.3	261.9	245.5	235.6	228.7	225.6
50°	970.9	314.2	225.2	239.3	262.9	257.9	236.1	225.6	212.5	209.7
52.5°	996.3	258.3	207.2	226.2	253.6	249.8	228.4	214.8	201.2	198.6
55°	982.6	214.5	191.7	211.6	241.4	239.8	222.2	203.7	193.1	191.1
57.5°	913.8	186.8	179.7	197.7	226.4	231.5	213.6	194.5	186.8	185.3
60°	782.9	169.5	172.0	188.6	214.1	223.0	205.3	189.4	184.3	183.3
62.5°	607.4	157.8	166.4	181.7	204.5	217.0	200.5	188.7	186.8	185.6
65°	435.1	148.6	160.2	175.0	195.9	211.6	198.9	187.8	188.4	187.2
67.5°	295.6	140.3	152.8	167.4	187.4	206.7	196.5	185.0	190.3	189.0
70°	206.9	132.3	144.2	157.7	176.8	200.0	192.2	180.5	180.1	175.0
72.5°	161.4	121.7	132.3	144.2	163.3	190.4	183.9	170.6	163.6	158.3
73°	154.1	119.1	129.4	141.2	160.3	188.0	181.5	167.9	160.0	155.1
75°	127.4	108.2	117.5	128.1	147.7	177.1	170.0	155.3	145.3	142.4
77.5°	100.3	92.5	101.5	110.9	130.2	161.1	153.3	139.1	133.6	131.1
80°	74.2	76.7	84.5	93.0	112.8	143.9	136.9	122.8	147.3	141.2
82.5°	52.2	58.1	65.2	72.9	94.7	127.2	118.8	104.3	107.7	89.7
85°	30.8	38.1	44.7	51.4	68.4	105.5	98.1	83.1	68.0	64.9
87.5°	18.0	21.1	23.0	29.9	46.9	79.5	69.1	61.5	35.4	23.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)