

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: P191529

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191529
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 6413.9 lumens
Efficiency: N/A
Efficacy: 108.7 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

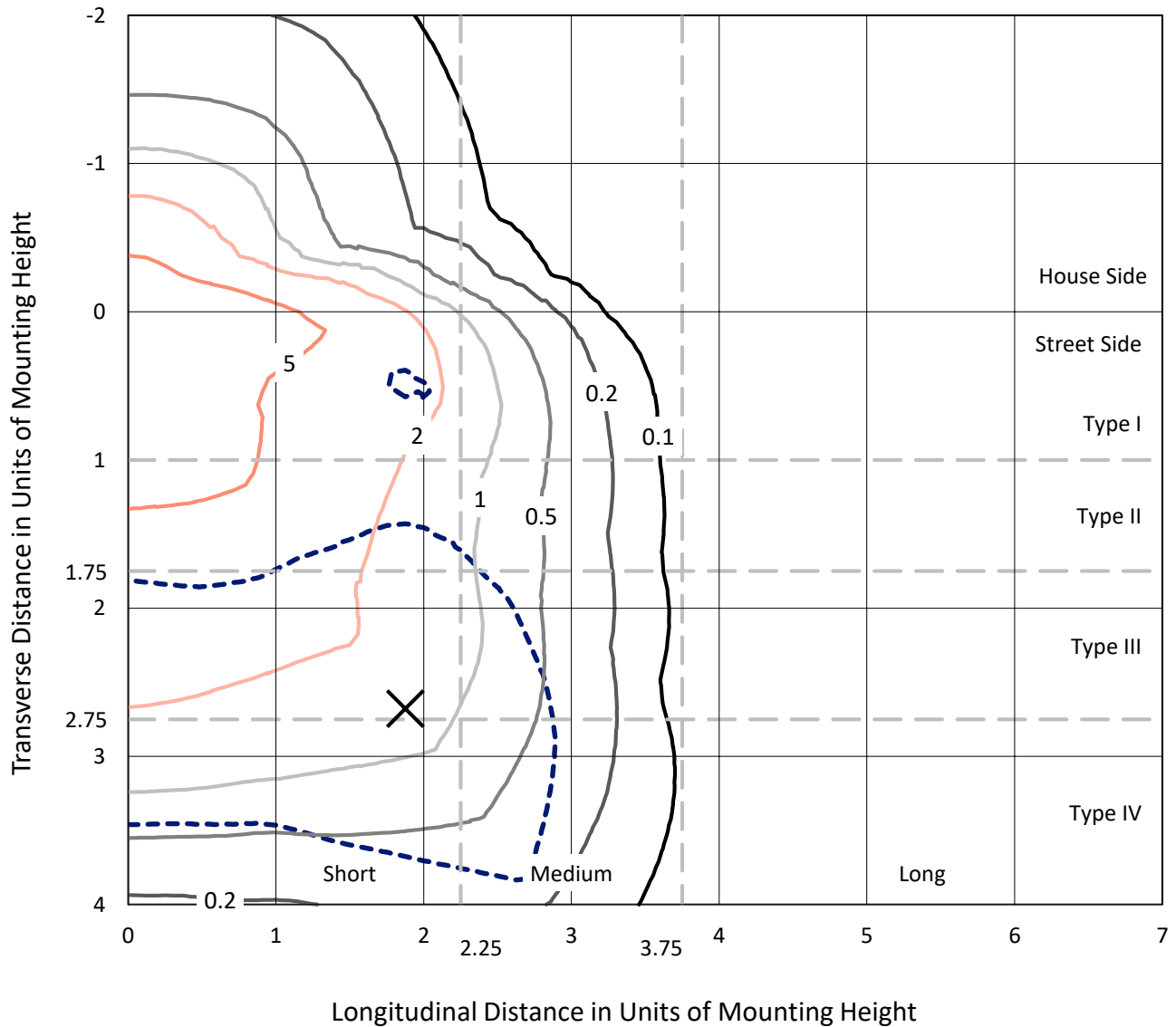
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

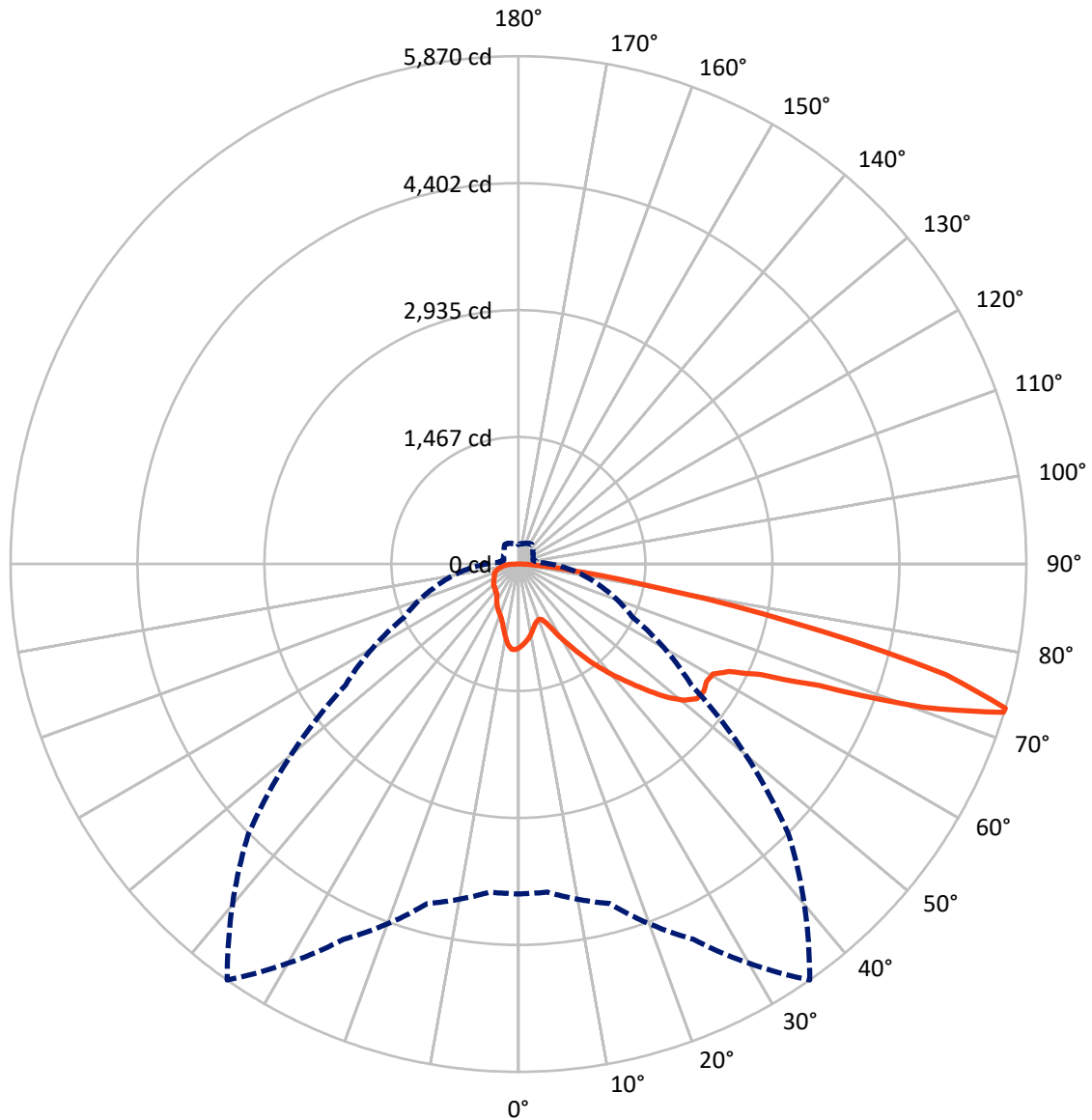
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 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	1223.3	0.0	1223.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	5190.6	0.0	5190.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	6413.9	0.0	6413.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	1.4
10°-20°	218.7	3.4
20°-30°	353.6	5.5
30°-40°	593.0	9.2
40°-50°	914.0	14.3
50°-60°	1226.2	19.1
60°-70°	1633.6	25.5
70°-80°	1245.9	19.4
80°-90°	141.2	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°	6413.9	100.0
0°-180°	6413.9	100.0

Coefficient of Utilization



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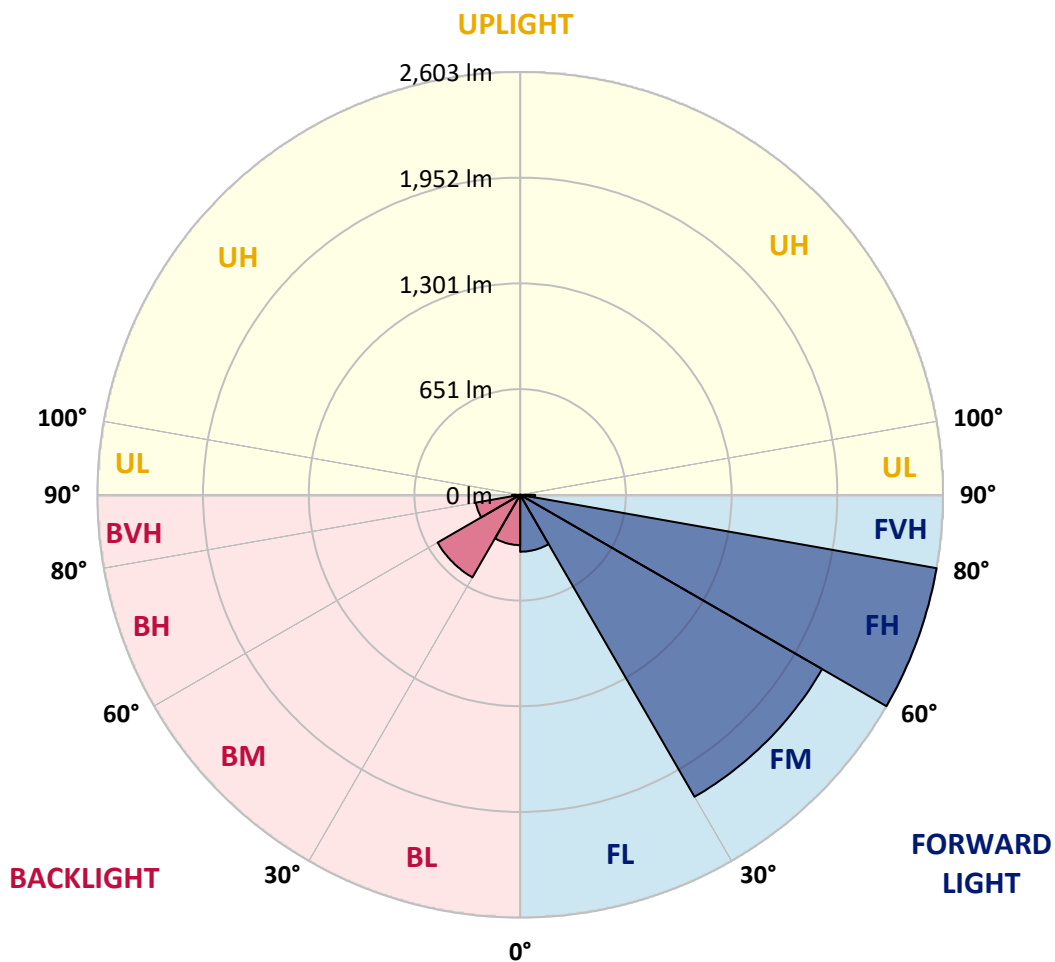
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	350.4	5.5			
FM	(30°-60°)	2146.1	33.5			
FH	(60°-80°)	2602.8	40.6			G2/5000
FVH	(80°-90°)	91.3	1.4			G1/100
BL	(0°-30°)	309.6	4.8	B1/500		
BM	(30°-60°)	587.1	9.2	B1/1000		
BH	(60°-80°)	276.8	4.3	B1/500		G1/500
BVH	(80°-90°)	49.9	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°	968.0	968.0	968.0	968.0	968.0	968.0	968.0	968.0	968.0	968.0	968.0
2.5°	929.9	931.7	929.6	932.3	936.9	941.8	945.3	950.2	955.7	963.4	965.3
5°	886.1	888.9	888.9	893.9	902.8	910.7	918.2	926.2	937.8	951.1	956.4
7.5°	838.1	839.6	842.4	849.8	862.8	874.1	884.5	897.5	913.5	931.1	940.3
10°	780.2	782.4	786.6	797.1	814.7	830.3	845.5	863.4	883.6	905.5	917.3
12.5°	739.2	738.6	740.4	748.2	763.5	782.7	804.6	827.3	852.2	877.8	892.0
15°	725.4	722.0	714.8	713.0	721.4	740.4	765.7	793.7	823.6	854.4	872.0
17.5°	734.0	728.1	708.7	694.6	693.4	707.8	734.6	766.0	800.5	838.1	860.0
20°	788.2	774.3	726.6	693.7	682.2	689.3	712.7	745.9	786.6	836.6	864.6
22.5°	917.9	897.5	796.2	734.9	696.4	687.7	705.3	740.7	788.2	855.6	891.4
25°	1106.6	1077.7	915.7	837.8	758.3	712.4	716.4	752.8	810.1	900.0	943.1
27.5°	1255.8	1237.0	1071.8	982.9	871.0	779.0	752.5	783.0	854.7	972.7	1016.7
30°	1344.5	1333.0	1238.8	1147.3	1014.9	884.9	821.4	839.6	924.6	1073.4	1109.7
32.5°	1447.3	1440.5	1394.4	1310.3	1170.2	1024.1	930.8	924.3	1018.2	1194.4	1211.1
35°	1553.9	1551.7	1524.6	1464.3	1336.7	1207.7	1075.8	1032.2	1120.2	1320.1	1309.7
37.5°	1653.1	1649.4	1633.7	1598.6	1511.1	1404.8	1223.7	1142.7	1230.2	1440.2	1393.7
40°	1835.7	1806.7	1752.8	1726.3	1687.3	1570.8	1341.1	1245.9	1344.2	1554.8	1466.4
42.5°	2058.4	2011.2	1910.9	1874.6	1868.9	1701.7	1421.1	1346.0	1459.0	1668.4	1537.9
45°	2233.6	2189.3	2102.8	2056.8	2077.2	1820.3	1501.5	1452.9	1577.3	1787.6	1611.5
47.5°	2420.6	2350.9	2236.4	2250.3	2294.6	1932.5	1583.4	1567.8	1707.0	1921.0	1702.9
50°	2427.4	2374.1	2323.9	2406.7	2475.7	2035.6	1686.0	1688.2	1865.6	2088.9	1824.6
52.5°	2286.6	2275.2	2355.0	2485.3	2584.8	2117.2	1802.7	1812.6	2068.5	2281.7	1958.3
55°	2237.3	2224.4	2316.5	2457.8	2599.5	2184.7	1929.4	1947.2	2314.0	2485.0	2088.6
57.5°	2357.5	2328.8	2335.0	2445.0	2563.5	2258.6	2067.3	2103.4	2580.8	2662.7	2172.3
60°	2693.2	2631.8	2515.4	2512.7	2583.0	2369.5	2226.9	2271.0	2857.9	2747.7	2139.7
62.5°	3164.1	3102.8	2884.7	2742.7	2732.3	2552.5	2422.8	2434.4	3018.1	2632.5	1940.4
65°	3673.8	3619.1	3375.4	3174.9	3078.2	2855.5	2650.4	2507.5	2965.7	2315.6	1591.8
67.5°	4292.6	4233.8	4024.4	3839.2	3746.3	3344.6	2810.3	2437.6	2633.5	1793.8	1144.3
70°	4725.4	4665.4	4582.8	4732.8	4960.4	4050.3	2830.9	2153.2	1966.9	1192.2	688.7
72.5°	4160.9	4132.8	4283.4	4915.2	5863.1	4478.4	2558.9	1567.8	1142.4	632.9	398.5
73°	3812.1	3806.0	4062.9	4787.3	5869.6	4412.5	2439.7	1457.2	979.8	560.0	364.4
75°	1721.4	1771.0	2334.1	3656.6	5099.6	3636.0	1717.1	836.0	553.5	386.9	275.1
77.5°	413.7	430.9	730.3	1736.6	3220.5	2166.8	778.1	413.4	353.9	273.2	200.8
80°	176.2	182.0	281.2	641.6	1516.3	872.6	358.5	276.9	244.9	190.7	140.8
82.5°	97.9	104.1	159.6	291.0	612.0	297.6	218.7	192.8	161.1	114.9	91.5
85°	55.4	58.8	93.3	162.6	259.3	119.5	130.9	128.2	90.8	59.1	45.0
87.5°	26.2	28.3	45.0	75.5	101.7	46.9	66.5	73.3	57.0	36.0	23.4
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°	968.0	968.0	968.0	968.0	968.0	968.0	968.0	968.0	968.0	968.0
2.5°	967.4	973.0	979.5	982.9	985.9	989.6	993.3	993.3	993.9	994.2
5°	960.7	972.1	982.2	986.5	987.5	987.5	986.5	981.6	977.3	979.2
7.5°	946.5	963.1	971.8	970.2	958.5	945.0	933.5	919.7	912.6	911.3
10°	926.2	945.3	946.8	931.4	902.4	873.5	849.5	826.0	815.0	812.2
12.5°	903.7	921.3	911.3	879.6	833.2	790.9	760.5	736.7	726.3	723.5
15°	885.5	897.5	872.6	822.7	764.1	719.5	694.3	676.7	669.3	667.2
17.5°	876.0	878.4	832.9	765.4	703.2	665.9	650.2	641.9	639.1	637.6
20°	880.6	863.4	794.9	712.1	653.3	627.1	623.4	621.2	620.6	619.7
22.5°	903.7	858.7	760.2	661.5	609.6	598.1	601.2	600.9	600.3	599.7
25°	945.0	862.8	726.3	613.6	572.9	570.4	575.9	575.9	573.5	573.5
27.5°	999.4	871.0	688.3	567.9	539.6	539.9	544.2	543.0	540.2	538.4
30°	1066.0	876.3	644.0	527.0	508.5	507.3	508.5	503.3	495.0	494.4
32.5°	1134.0	869.8	592.6	490.6	475.6	472.8	471.9	464.4	454.9	452.1
35°	1195.6	846.1	540.2	461.7	444.2	438.0	442.3	439.9	431.2	429.0
37.5°	1240.6	802.0	493.2	436.1	421.7	420.1	422.9	423.8	413.7	411.5
40°	1270.8	742.3	452.8	414.6	417.4	411.5	402.2	395.8	392.7	391.8
42.5°	1295.2	680.1	418.9	404.4	418.3	401.3	381.4	370.8	376.3	378.8
45°	1323.2	619.4	390.6	391.8	413.7	389.6	366.8	356.7	358.9	359.5
47.5°	1361.6	545.4	360.1	371.4	398.2	381.7	357.9	343.4	333.3	328.7
50°	1414.9	458.0	328.4	348.6	383.2	375.7	344.0	328.7	309.9	305.6
52.5°	1452.0	376.3	302.2	329.6	369.6	364.1	333.0	312.9	293.2	289.5
55°	1431.9	312.6	279.4	308.3	351.7	349.5	323.7	297.0	281.5	278.4
57.5°	1331.8	272.3	261.8	288.3	329.9	337.3	311.4	283.4	272.3	270.2
60°	1140.9	247.0	250.7	274.8	312.0	325.0	299.1	276.0	268.6	267.0
62.5°	885.2	230.1	242.4	264.8	298.2	316.3	292.3	275.1	272.3	270.5
65°	634.2	216.6	233.4	255.0	285.5	308.3	289.8	273.8	274.5	272.9
67.5°	430.9	204.5	222.7	244.0	273.2	301.3	286.4	269.5	277.2	275.4
70°	301.6	192.8	210.0	229.8	257.8	291.3	280.3	263.0	262.4	255.0
72.5°	235.3	177.4	192.8	210.0	238.0	277.5	268.0	248.6	238.3	230.7
73°	224.5	173.7	188.5	205.7	233.7	274.2	264.5	244.6	233.1	226.1
75°	185.8	157.7	171.2	186.7	215.3	258.1	248.0	226.4	212.0	207.6
77.5°	146.0	134.9	147.8	161.7	189.8	234.7	223.3	202.6	194.7	191.0
80°	108.1	111.8	123.2	135.5	164.5	209.7	199.6	178.9	214.7	205.7
82.5°	76.1	84.7	95.1	106.3	138.0	185.5	173.1	151.8	157.1	130.6
85°	45.0	55.4	65.3	74.9	99.5	153.6	142.9	121.0	99.2	94.5
87.5°	26.2	30.8	33.6	43.5	68.3	115.8	100.8	89.6	51.5	34.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)