

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: P269036

Luminaire Tested: **GLEON-AF-01-LED-E1-T4FT-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269036
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 5975.3 lumens
Efficiency: N/A
Efficacy: 89.2 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): 67
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

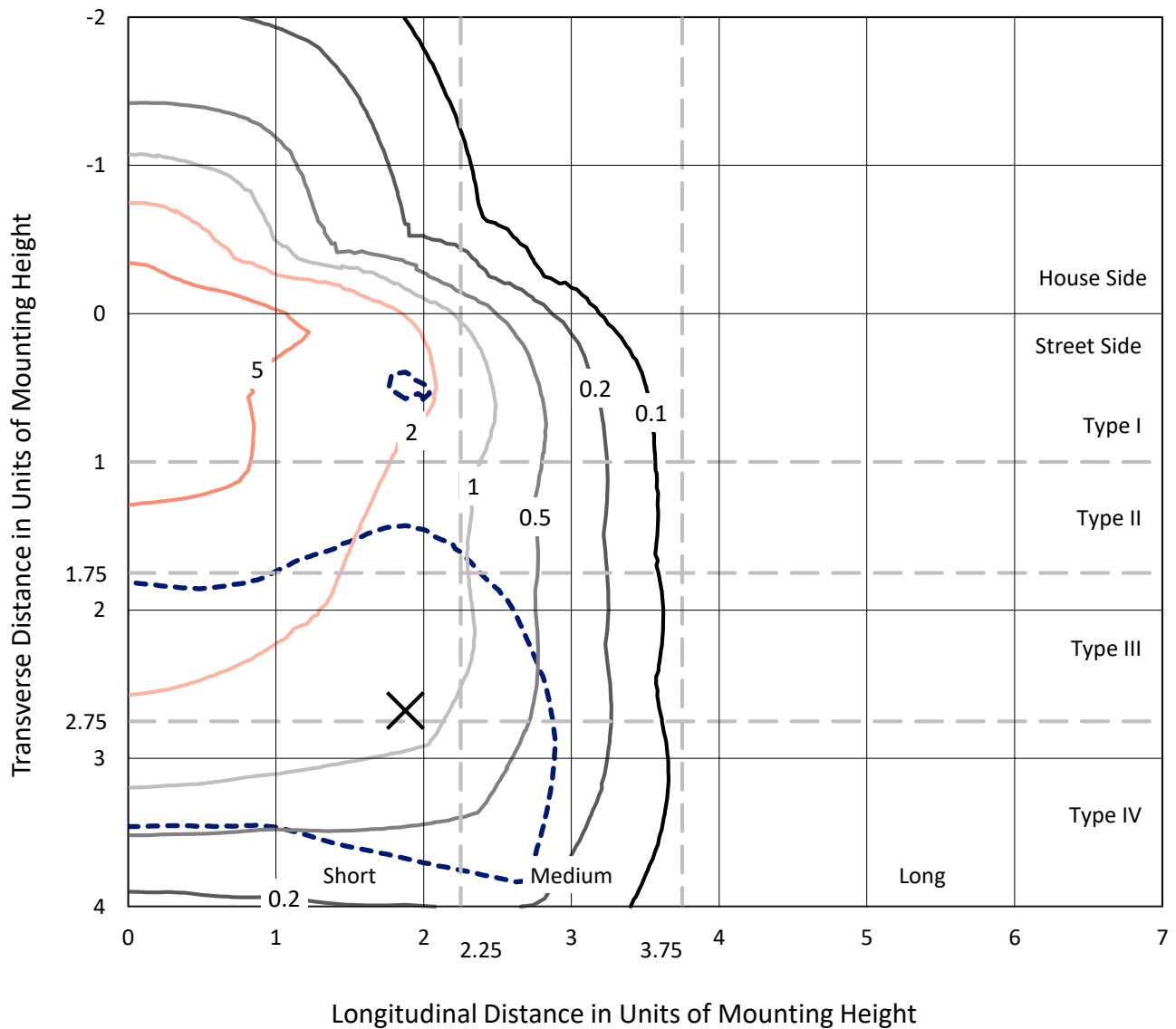


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

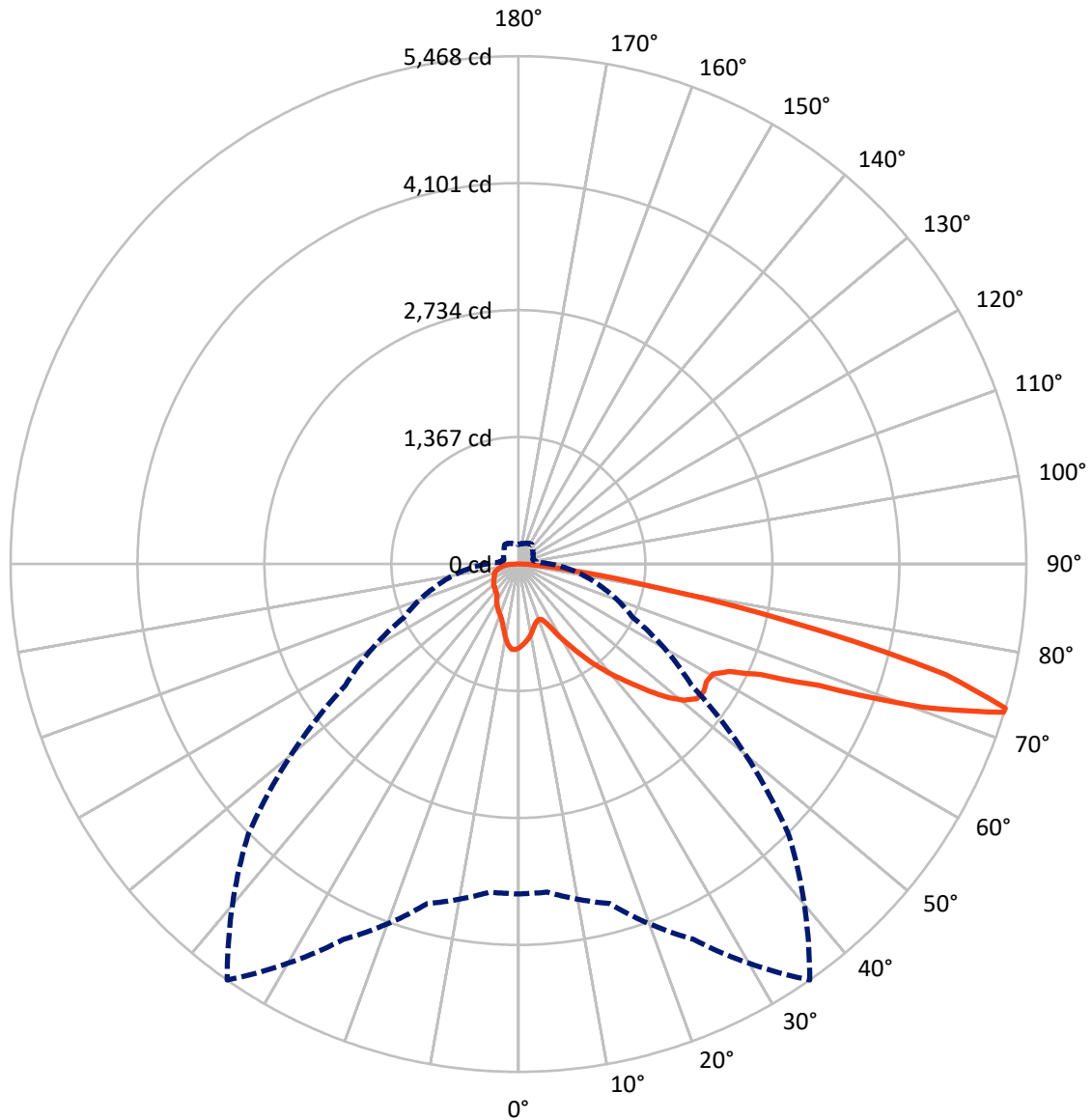


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Non-Cutoff

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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	1139.6	0.0	1139.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	4835.6	0.0	4835.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	5975.3	0.0	5975.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	1.4
10°-20°	203.8	3.4
20°-30°	329.4	5.5
30°-40°	552.4	9.2
40°-50°	851.5	14.3
50°-60°	1142.4	19.1
60°-70°	1521.9	25.5
70°-80°	1160.7	19.4
80°-90°	131.6	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°	5975.3	100.0
0°-180°	5975.3	100.0



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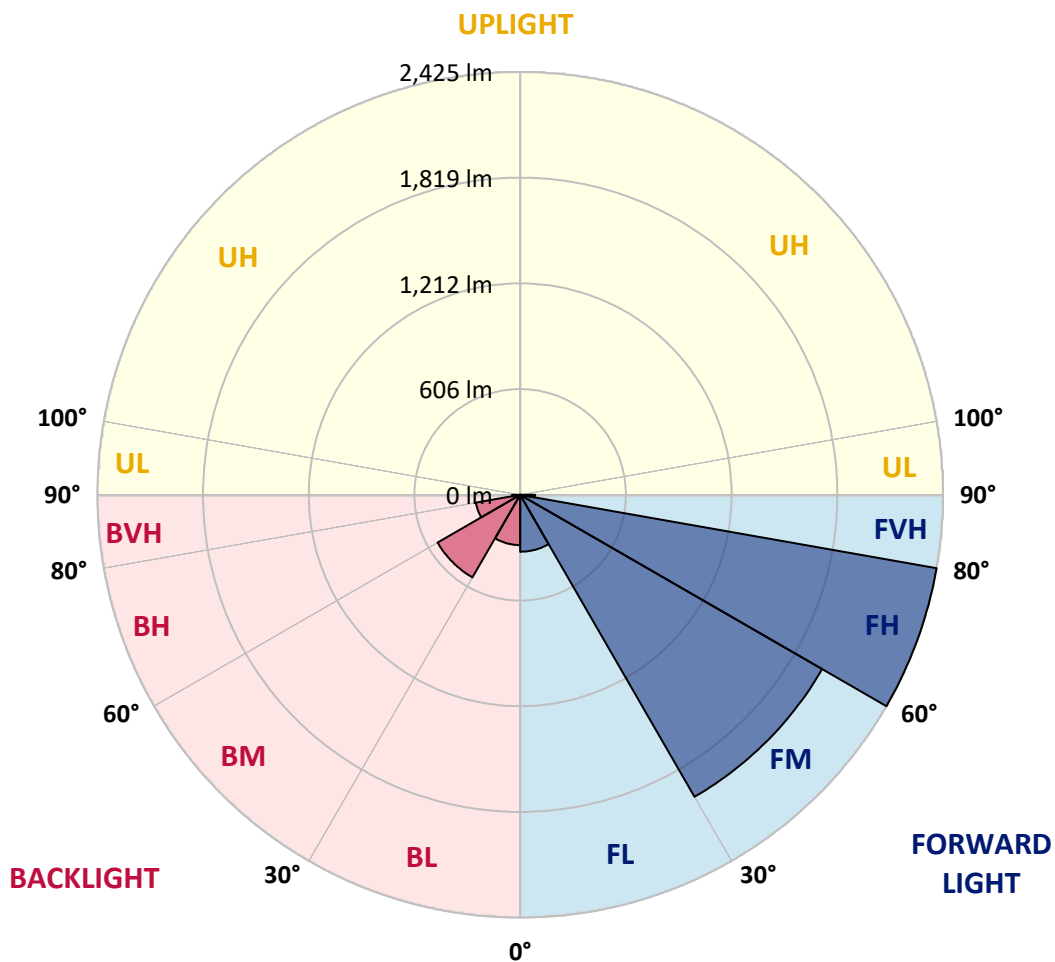
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	326.5	5.5			
FM	(30°-60°)	1999.3	33.5			
FH	(60°-80°)	2424.8	40.6			G2/5000
FVH	(80°-90°)	85.0	1.4			G1/100
BL	(0°-30°)	288.4	4.8	B1/500		
BM	(30°-60°)	546.9	9.2	B1/1000		
BH	(60°-80°)	257.8	4.3	B1/500		G1/500
BVH	(80°-90°)	46.5	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°	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9
2.5°	866.2	868.0	866.0	868.7	872.9	877.5	880.6	885.2	890.4	897.5	899.3
5°	825.5	828.1	828.1	832.6	841.1	848.4	855.4	862.8	873.7	886.1	890.9
7.5°	780.7	782.2	784.8	791.6	803.8	814.4	824.0	836.1	851.1	867.5	876.0
10°	726.8	728.9	732.8	742.5	759.0	773.6	787.6	804.3	823.2	843.6	854.5
12.5°	688.6	688.1	689.8	696.9	711.3	729.2	749.5	770.7	793.9	817.7	831.0
15°	675.7	672.7	666.1	664.2	672.0	689.8	713.3	739.5	767.3	796.0	812.3
17.5°	683.8	678.3	660.3	647.0	645.9	659.4	684.4	713.7	745.8	780.7	801.2
20°	734.3	721.3	677.0	646.2	635.6	642.2	663.9	695.0	732.8	779.3	805.4
22.5°	855.0	836.1	741.7	684.7	648.8	640.8	657.1	690.1	734.3	797.2	830.5
25°	1031.0	1003.9	853.1	780.4	706.4	663.7	667.4	701.2	754.7	838.5	878.6
27.5°	1169.9	1152.3	998.6	915.6	811.4	725.7	700.9	729.5	796.3	906.2	947.3
30°	1252.4	1241.8	1154.1	1068.9	945.5	824.4	765.3	782.2	861.4	1000.1	1033.9
32.5°	1348.4	1342.0	1298.9	1220.6	1090.2	954.1	867.1	861.1	948.6	1112.7	1128.2
35°	1447.6	1445.6	1420.4	1364.2	1245.3	1125.0	1002.2	961.5	1043.7	1229.8	1220.1
37.5°	1540.1	1536.6	1521.9	1489.2	1407.7	1308.7	1139.9	1064.5	1146.1	1341.7	1298.4
40°	1710.2	1683.2	1632.9	1608.2	1571.9	1463.3	1249.4	1160.7	1252.1	1448.4	1366.1
42.5°	1917.6	1873.8	1780.3	1746.3	1741.2	1585.4	1323.9	1253.9	1359.2	1554.3	1432.6
45°	2081.0	2039.6	1958.9	1916.2	1935.0	1695.8	1398.8	1353.4	1469.4	1665.4	1501.2
47.5°	2255.0	2190.2	2083.4	2096.4	2137.6	1800.3	1475.1	1460.6	1590.2	1789.7	1586.4
50°	2261.4	2211.7	2164.9	2242.2	2306.4	1896.4	1570.6	1572.8	1738.0	1946.0	1699.9
52.5°	2130.2	2119.6	2193.9	2315.3	2407.9	1972.4	1679.4	1688.6	1927.0	2125.7	1824.4
55°	2084.3	2072.3	2158.1	2289.8	2421.8	2035.3	1797.4	1814.0	2155.8	2315.0	1945.8
57.5°	2196.3	2169.5	2175.2	2277.7	2388.2	2104.1	1926.0	1959.6	2404.3	2480.6	2023.8
60°	2509.0	2452.0	2343.5	2340.9	2406.3	2207.4	2074.5	2115.6	2662.5	2559.8	1993.3
62.5°	2947.8	2890.7	2687.5	2555.1	2545.4	2377.9	2257.1	2268.0	2811.8	2452.5	1807.7
65°	3422.6	3371.6	3144.5	2957.8	2867.7	2660.2	2469.1	2336.0	2762.9	2157.2	1482.9
67.5°	3999.1	3944.3	3749.2	3576.7	3490.1	3116.0	2618.0	2270.8	2453.4	1671.1	1066.0
70°	4402.2	4346.3	4269.4	4409.2	4621.2	3773.3	2637.2	2005.9	1832.5	1110.8	641.6
72.5°	3876.2	3850.1	3990.5	4579.0	5462.1	4172.1	2383.9	1460.6	1064.2	589.6	371.3
73°	3551.4	3545.7	3785.0	4459.9	5468.3	4110.7	2272.8	1357.5	912.8	521.6	339.5
75°	1603.7	1649.8	2174.4	3406.6	4750.9	3387.2	1599.7	778.7	515.6	360.4	256.2
77.5°	385.4	401.5	680.3	1617.8	3000.2	2018.6	724.8	385.1	329.7	254.5	187.0
80°	164.1	169.6	261.9	597.7	1412.7	812.8	334.0	258.0	228.1	177.7	131.2
82.5°	91.3	96.9	148.6	271.2	570.2	277.1	203.7	179.7	150.0	107.0	85.2
85°	51.7	54.7	87.0	151.5	241.6	111.3	122.0	119.4	84.6	55.1	42.0
87.5°	24.4	26.4	42.0	70.2	94.7	43.6	62.0	68.4	53.1	33.5	21.7
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°	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9
2.5°	901.3	906.4	912.5	915.6	918.4	921.9	925.3	925.3	926.0	926.2
5°	895.0	905.6	915.1	919.1	920.0	920.0	919.1	914.5	910.4	912.1
7.5°	881.7	897.2	905.3	903.9	892.9	880.2	869.6	856.9	850.2	849.1
10°	862.8	880.6	882.0	867.8	840.8	813.8	791.3	769.6	759.2	756.6
12.5°	841.9	858.2	849.1	819.6	776.1	736.9	708.5	686.3	676.7	674.0
15°	825.0	836.1	812.8	766.4	711.8	670.2	646.8	630.4	623.6	621.4
17.5°	816.1	818.4	775.9	713.1	655.0	620.4	605.7	598.0	595.3	594.0
20°	820.3	804.3	740.7	663.4	608.6	584.2	580.8	578.8	578.1	577.3
22.5°	841.9	800.0	708.1	616.3	567.9	557.3	560.2	559.9	559.3	558.7
25°	880.2	803.8	676.7	571.6	533.8	531.3	536.6	536.6	534.3	534.3
27.5°	931.2	811.4	641.3	529.1	502.7	503.1	507.1	505.8	503.3	501.6
30°	993.0	816.3	600.0	491.0	473.8	472.6	473.8	468.8	461.1	460.6
32.5°	1056.4	810.4	552.1	457.1	443.0	440.4	439.6	432.8	423.8	421.2
35°	1113.9	788.3	503.3	430.1	413.8	408.0	412.1	409.7	401.7	399.7
37.5°	1155.8	747.2	459.5	406.4	392.7	391.4	393.9	394.9	385.4	383.3
40°	1184.0	691.5	421.8	386.2	388.7	383.3	374.8	368.8	365.9	365.0
42.5°	1206.6	633.6	390.3	376.7	389.7	373.9	355.2	345.5	350.7	352.9
45°	1232.7	577.0	363.9	365.0	385.4	362.9	341.7	332.3	334.3	334.9
47.5°	1268.5	508.3	335.4	346.0	371.0	355.5	333.5	319.9	310.5	306.1
50°	1318.3	426.6	305.9	324.7	356.9	350.1	320.5	306.1	288.6	284.7
52.5°	1352.7	350.7	281.4	307.0	344.3	339.2	310.2	291.5	273.2	269.8
55°	1334.1	291.2	260.2	287.2	327.7	325.6	301.7	276.6	262.2	259.4
57.5°	1240.6	253.6	243.9	268.6	307.3	314.1	290.2	264.0	253.6	251.6
60°	1062.9	230.1	233.6	255.9	290.7	302.6	278.7	257.1	250.2	248.8
62.5°	824.6	214.3	225.8	246.8	277.8	294.6	272.2	256.2	253.6	252.0
65°	590.8	201.7	217.5	237.6	266.0	287.2	270.0	255.1	255.7	254.2
67.5°	401.5	190.5	207.5	227.2	254.5	280.6	266.8	251.0	258.3	256.6
70°	280.9	179.7	195.7	214.1	240.1	271.5	261.0	245.1	244.5	237.6
72.5°	219.2	165.3	179.7	195.7	221.8	258.5	249.5	231.6	222.2	215.0
73°	209.1	161.9	175.6	191.7	217.7	255.4	246.4	227.8	217.2	210.7
75°	173.1	147.0	159.4	173.9	200.6	240.4	231.0	210.9	197.4	193.3
77.5°	136.1	125.8	137.7	150.6	176.7	218.6	208.0	188.9	181.4	178.0
80°	100.7	104.2	114.8	126.2	153.3	195.4	185.9	166.7	200.1	191.7
82.5°	70.8	79.0	88.7	99.1	128.5	172.7	161.2	141.5	146.3	121.7
85°	42.0	51.7	60.8	69.7	92.6	143.2	133.2	112.7	92.3	88.2
87.5°	24.4	28.7	31.4	40.5	63.7	107.8	93.9	83.5	47.9	32.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)