

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: P269033

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269033
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 5447.2 lumens
Efficiency: N/A
Efficacy: 92.3 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

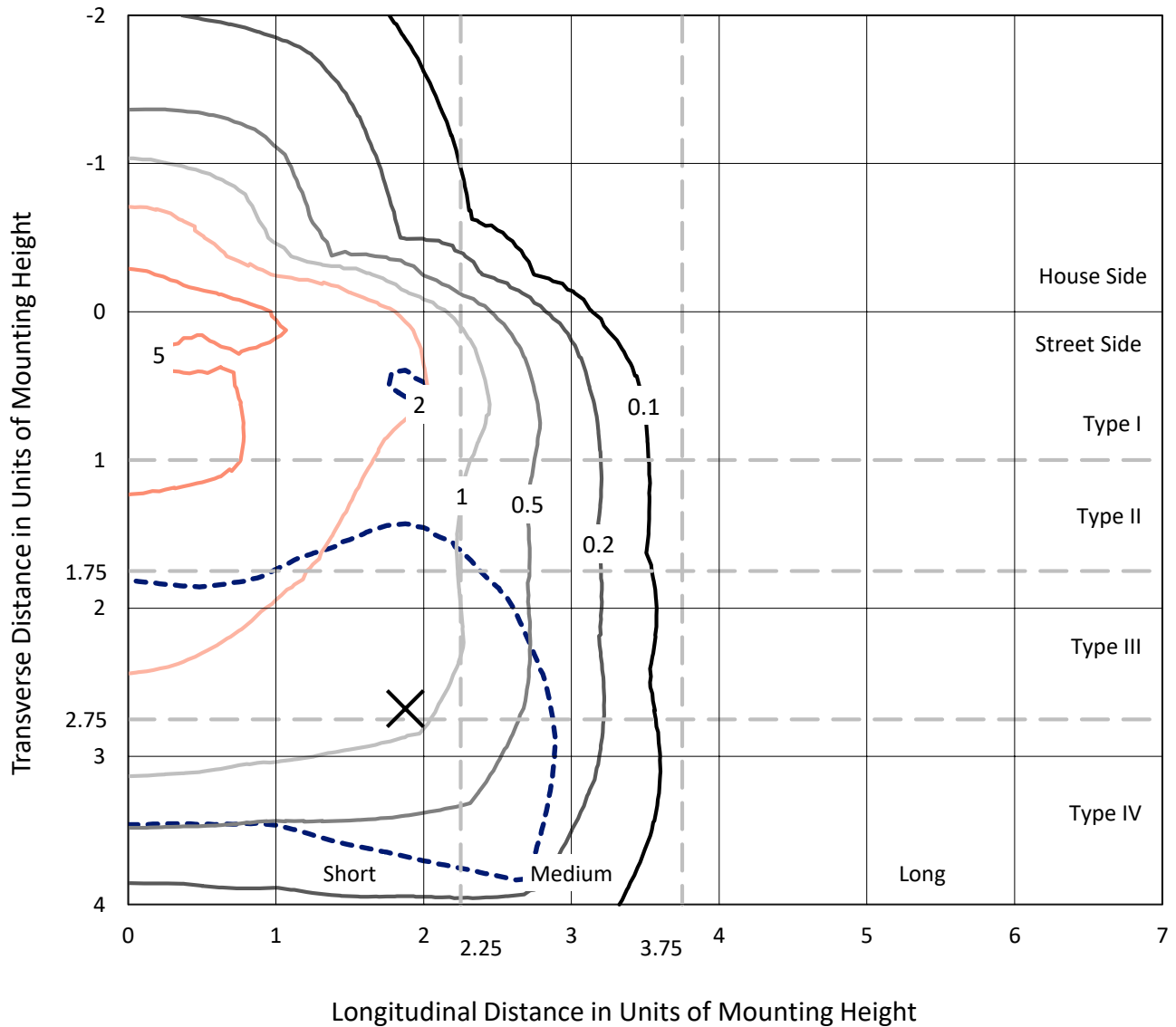
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

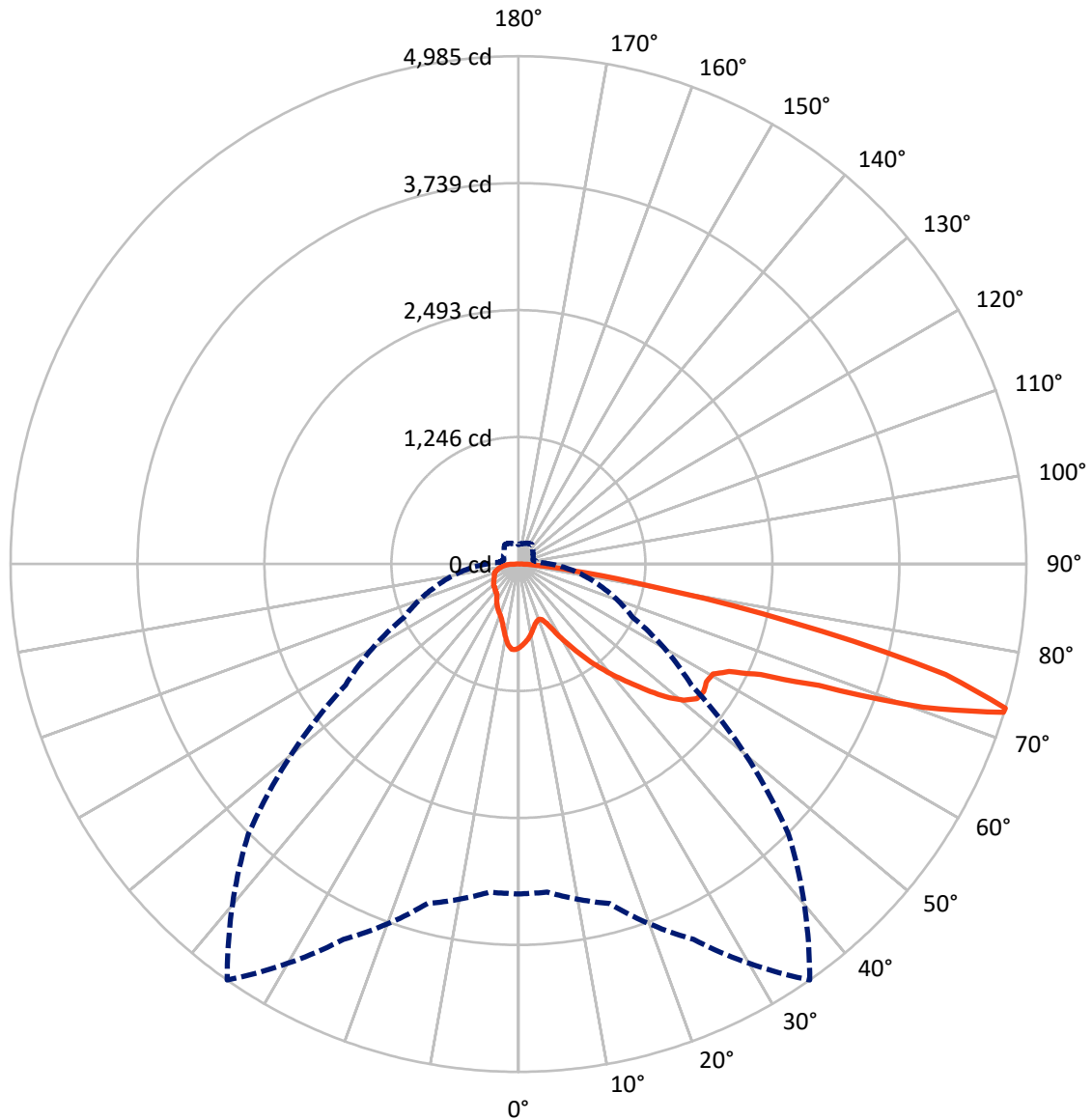
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 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	1038.9	0.0	1038.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	4408.3	0.0	4408.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	5447.2	0.0	5447.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	1.4
10°-20°	185.8	3.4
20°-30°	300.3	5.5
30°-40°	503.6	9.2
40°-50°	776.3	14.3
50°-60°	1041.4	19.1
60°-70°	1387.4	25.5
70°-80°	1058.2	19.4
80°-90°	120.0	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°	5447.2	100.0
0°-180°	5447.2	100.0



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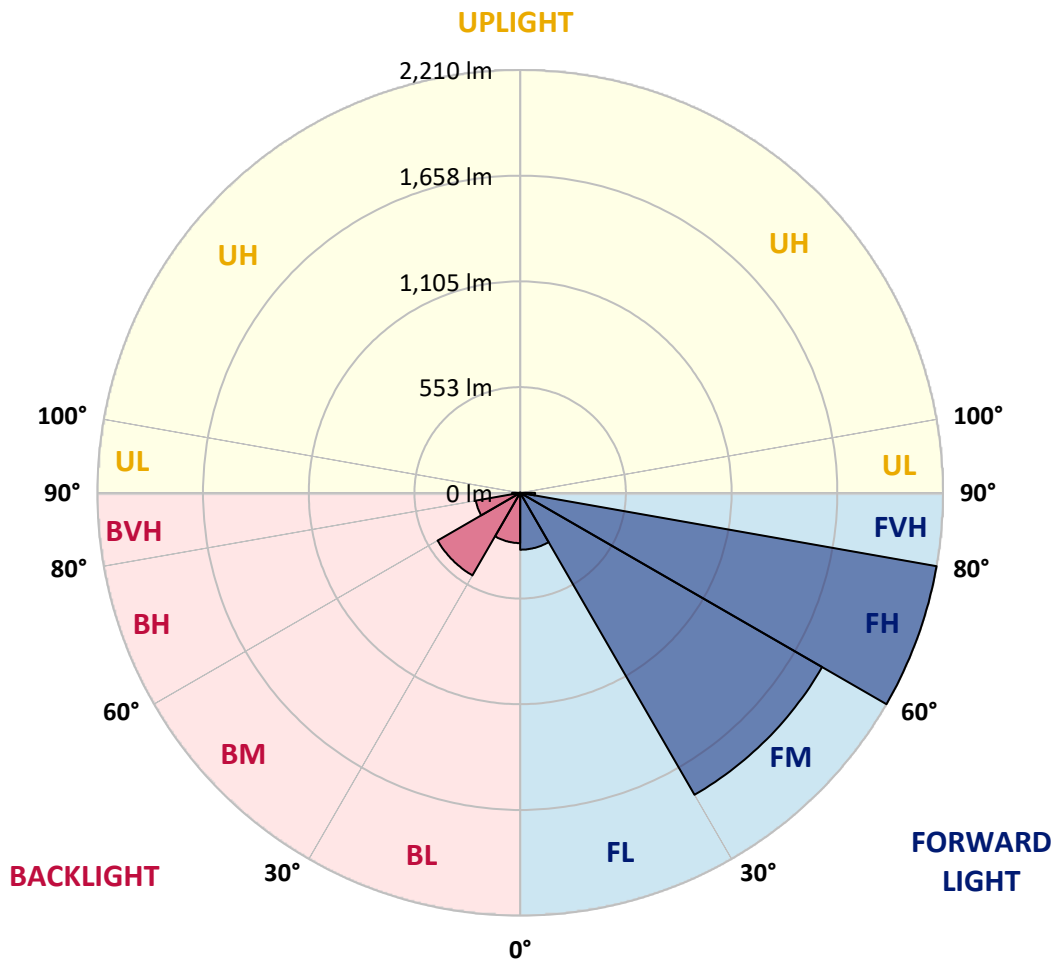
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	297.6	5.5			
FM	(30°-60°)	1822.7	33.5			
FH	(60°-80°)	2210.5	40.6			G2/5000
FVH	(80°-90°)	77.5	1.4			G1/100
BL	(0°-30°)	262.9	4.8	B1/500		
BM	(30°-60°)	498.6	9.2	B1/1000		
BH	(60°-80°)	235.1	4.3	B1/500		G1/500
BVH	(80°-90°)	42.4	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°	822.2	822.2	822.2	822.2	822.2	822.2	822.2	822.2	822.2	822.2	822.2
2.5°	789.7	791.2	789.5	791.9	795.7	799.9	802.7	806.9	811.7	818.3	819.9
5°	752.6	754.9	754.9	759.1	766.8	773.5	779.8	786.6	796.4	807.8	812.2
7.5°	711.7	713.1	715.4	721.7	732.7	742.4	751.3	762.2	775.9	790.8	798.7
10°	662.6	664.4	668.1	677.0	691.9	705.2	718.0	733.2	750.4	769.0	779.0
12.5°	627.7	627.2	628.9	635.5	648.4	664.7	683.3	702.7	723.9	745.6	757.5
15°	616.1	613.2	607.2	605.5	612.6	628.9	650.4	674.1	699.5	725.7	740.6
17.5°	623.3	618.4	602.0	589.8	588.7	601.1	623.9	650.6	679.8	711.7	730.3
20°	669.3	657.6	617.0	589.1	579.3	585.4	605.3	633.6	668.1	710.5	734.3
22.5°	779.5	762.2	676.2	624.1	591.4	584.1	599.0	629.2	669.3	726.6	757.0
25°	939.8	915.3	777.8	711.5	644.1	605.1	608.4	639.4	687.9	764.4	801.0
27.5°	1066.5	1050.5	910.3	834.7	739.8	661.5	639.1	664.9	725.9	826.1	863.5
30°	1141.8	1132.1	1052.0	974.4	862.0	751.5	697.7	713.1	785.3	911.6	942.5
32.5°	1229.2	1223.4	1184.1	1112.8	993.7	869.7	790.5	784.9	864.8	1014.5	1028.6
35°	1319.7	1317.9	1294.8	1243.6	1135.3	1025.7	913.7	876.6	951.3	1121.2	1112.2
37.5°	1404.0	1400.7	1387.4	1357.6	1283.3	1193.0	1039.2	970.4	1044.8	1223.1	1183.6
40°	1559.0	1534.5	1488.8	1466.2	1432.9	1334.1	1139.0	1058.2	1141.6	1320.5	1245.4
42.5°	1748.1	1708.1	1622.9	1591.9	1587.2	1445.3	1207.0	1143.2	1239.1	1416.9	1306.0
45°	1897.0	1859.3	1785.8	1746.8	1764.1	1546.0	1275.2	1233.9	1339.6	1518.2	1368.6
47.5°	2055.9	1996.7	1899.3	1911.1	1948.9	1641.2	1344.9	1331.5	1449.7	1631.5	1446.4
50°	2061.5	2016.2	1973.7	2044.1	2102.7	1728.8	1431.9	1433.8	1584.4	1774.1	1549.7
52.5°	1942.0	1932.3	2000.0	2110.7	2195.2	1798.0	1531.0	1539.4	1756.7	1937.9	1663.1
55°	1900.2	1889.1	1967.4	2087.4	2207.8	1855.4	1638.6	1653.7	1965.3	2110.5	1773.9
57.5°	2002.1	1977.8	1983.1	2076.4	2177.1	1918.2	1755.7	1786.4	2191.9	2261.5	1844.9
60°	2287.3	2235.3	2136.3	2134.1	2193.7	2012.4	1891.2	1928.7	2427.2	2333.5	1817.2
62.5°	2687.2	2635.2	2449.9	2329.3	2320.5	2167.7	2057.6	2067.5	2563.3	2235.7	1648.0
65°	3120.2	3073.6	2866.8	2696.4	2614.2	2425.2	2251.0	2129.5	2518.8	1966.6	1351.9
67.5°	3645.7	3595.7	3417.8	3260.7	3181.6	2840.5	2386.6	2070.1	2236.5	1523.4	971.7
70°	4013.2	3962.2	3892.0	4019.5	4212.8	3439.8	2404.3	1828.7	1670.5	1012.6	584.8
72.5°	3533.8	3509.9	3637.9	4174.3	4979.5	3803.5	2173.2	1331.5	970.2	537.5	338.5
73°	3237.6	3232.5	3450.5	4065.8	4985.0	3747.4	2072.0	1237.5	832.1	475.6	309.5
75°	1462.0	1504.1	1982.3	3105.5	4331.0	3088.1	1458.3	709.9	470.1	328.5	233.6
77.5°	351.2	366.0	620.2	1474.7	2735.1	1840.3	660.8	351.1	300.6	232.0	170.6
80°	149.6	154.6	238.8	544.9	1287.8	741.0	304.4	235.1	208.0	162.0	119.6
82.5°	83.3	88.5	135.6	247.3	519.8	252.8	185.7	163.8	136.8	97.6	77.8
85°	47.2	49.9	79.3	138.1	220.3	101.5	111.2	108.9	77.2	50.2	38.2
87.5°	22.3	24.1	38.2	64.0	86.3	39.7	56.6	62.3	48.4	30.6	19.9
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°	822.2	822.2	822.2	822.2	822.2	822.2	822.2	822.2	822.2	822.2
2.5°	821.6	826.4	831.8	834.7	837.3	840.5	843.6	843.6	844.1	844.3
5°	815.9	825.5	834.2	837.8	838.7	838.7	837.8	833.6	830.0	831.7
7.5°	803.9	817.9	825.4	823.9	814.0	802.5	792.8	781.0	775.1	774.0
10°	786.6	802.7	804.2	791.0	766.4	741.8	721.5	701.5	692.1	689.8
12.5°	767.5	782.5	774.0	747.1	707.5	671.8	645.8	625.7	616.9	614.5
15°	752.1	762.2	741.0	698.7	648.9	611.0	589.6	574.6	568.4	566.7
17.5°	743.9	746.0	707.3	650.1	597.3	565.6	552.2	545.1	542.8	541.5
20°	747.8	733.2	675.2	604.7	554.9	532.5	529.5	527.7	527.0	526.2
22.5°	767.5	729.3	645.6	561.9	517.7	508.0	510.5	510.3	509.8	509.2
25°	802.5	732.7	616.9	521.0	486.5	484.5	489.1	489.1	487.2	487.2
27.5°	848.9	739.8	584.6	482.4	458.2	458.6	462.2	461.2	458.9	457.2
30°	905.3	744.2	547.0	447.5	431.8	430.8	431.8	427.5	420.3	419.9
32.5°	963.2	738.6	503.3	416.8	403.9	401.5	400.7	394.4	386.4	383.9
35°	1015.4	718.6	458.9	392.1	377.2	372.0	375.6	373.5	366.1	364.4
37.5°	1053.6	681.2	418.8	370.5	358.2	356.7	359.1	360.0	351.2	349.5
40°	1079.4	630.4	384.6	352.0	354.4	349.5	341.6	336.1	333.5	332.7
42.5°	1100.0	577.6	355.8	343.4	355.2	340.8	323.7	314.9	319.6	321.8
45°	1123.8	526.0	331.7	332.7	351.2	330.8	311.5	302.9	304.7	305.2
47.5°	1156.5	463.3	305.9	315.5	338.2	324.1	303.9	291.7	283.1	279.2
50°	1201.8	389.0	278.8	296.1	325.4	319.2	292.2	279.2	263.2	259.5
52.5°	1233.2	319.6	256.6	279.9	313.9	309.1	282.7	265.8	249.0	245.9
55°	1216.0	265.4	237.2	261.9	298.7	296.9	274.9	252.2	239.0	236.4
57.5°	1131.1	231.3	222.3	244.9	280.1	286.4	264.6	240.7	231.3	229.3
60°	968.9	209.8	212.9	233.3	265.0	276.0	254.0	234.4	228.1	226.8
62.5°	751.8	195.4	205.9	224.9	253.2	268.7	248.2	233.6	231.3	229.6
65°	538.7	184.0	198.3	216.6	242.5	261.9	246.1	232.5	233.1	231.8
67.5°	366.0	173.7	189.2	207.1	232.0	255.8	243.4	228.9	235.4	233.9
70°	256.0	163.8	178.5	195.1	218.9	247.5	238.1	223.4	222.9	216.6
72.5°	199.9	150.6	163.8	178.5	202.2	235.6	227.6	211.1	202.5	195.9
73°	190.7	147.5	160.1	174.7	198.5	232.8	224.7	207.7	198.0	192.0
75°	157.7	133.9	145.4	158.6	182.8	219.1	210.6	192.2	180.0	176.2
77.5°	124.0	114.5	125.6	137.4	161.2	199.3	189.6	172.1	165.3	162.1
80°	91.7	95.0	104.7	115.2	139.6	178.1	169.5	152.0	182.4	174.7
82.5°	64.6	72.0	80.8	90.2	117.1	157.5	147.1	128.9	133.4	110.9
85°	38.2	47.2	55.4	63.6	84.5	130.6	121.5	102.8	84.3	80.3
87.5°	22.3	26.2	28.6	36.9	58.1	98.4	85.6	76.1	43.7	29.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)