

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: P191519

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191519  
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-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 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: 5182.3 lumens  
Efficiency: N/A  
Efficacy: 117.8 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

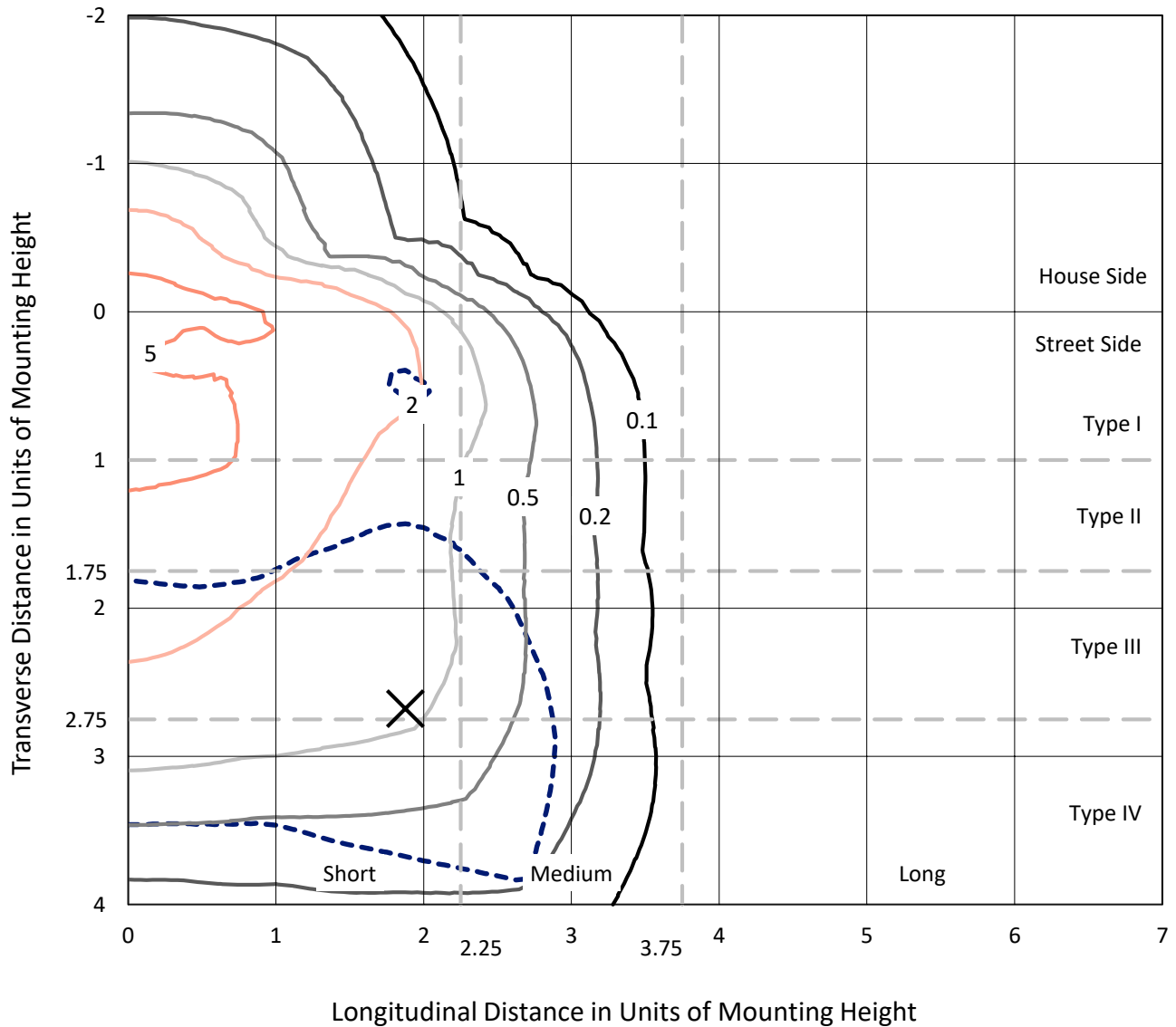
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

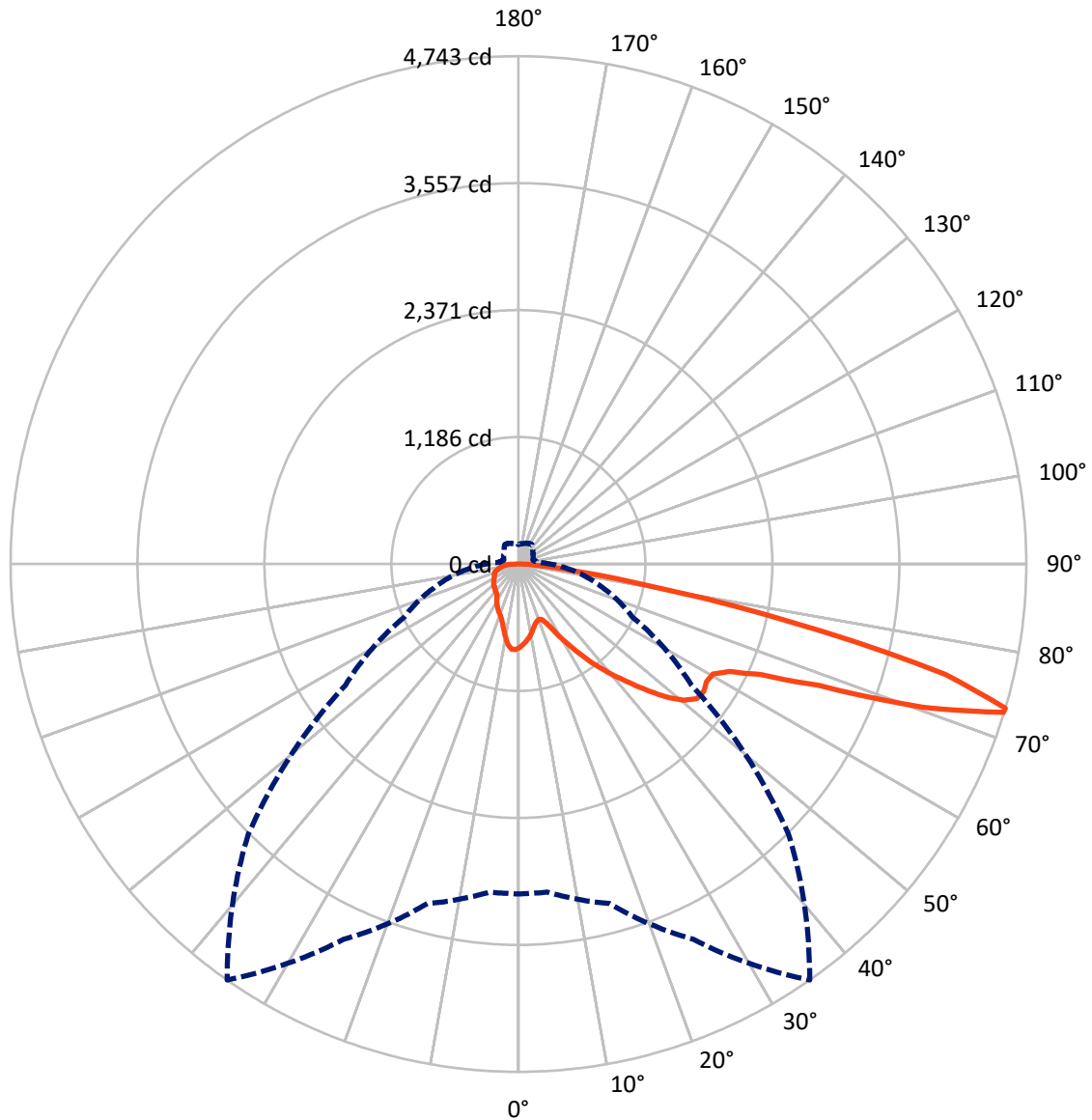
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 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
<b>House Side</b>	Lumens	988.4	0.0	988.4
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	4193.9	0.0	4193.9
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	5182.3	0.0	5182.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.8	1.4
10°-20°	176.7	3.4
20°-30°	285.7	5.5
30°-40°	479.1	9.2
40°-50°	738.5	14.3
50°-60°	990.8	19.1
60°-70°	1319.9	25.5
70°-80°	1006.7	19.4
80°-90°	114.1	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°	5182.3	100.0
0°-180°	5182.3	100.0



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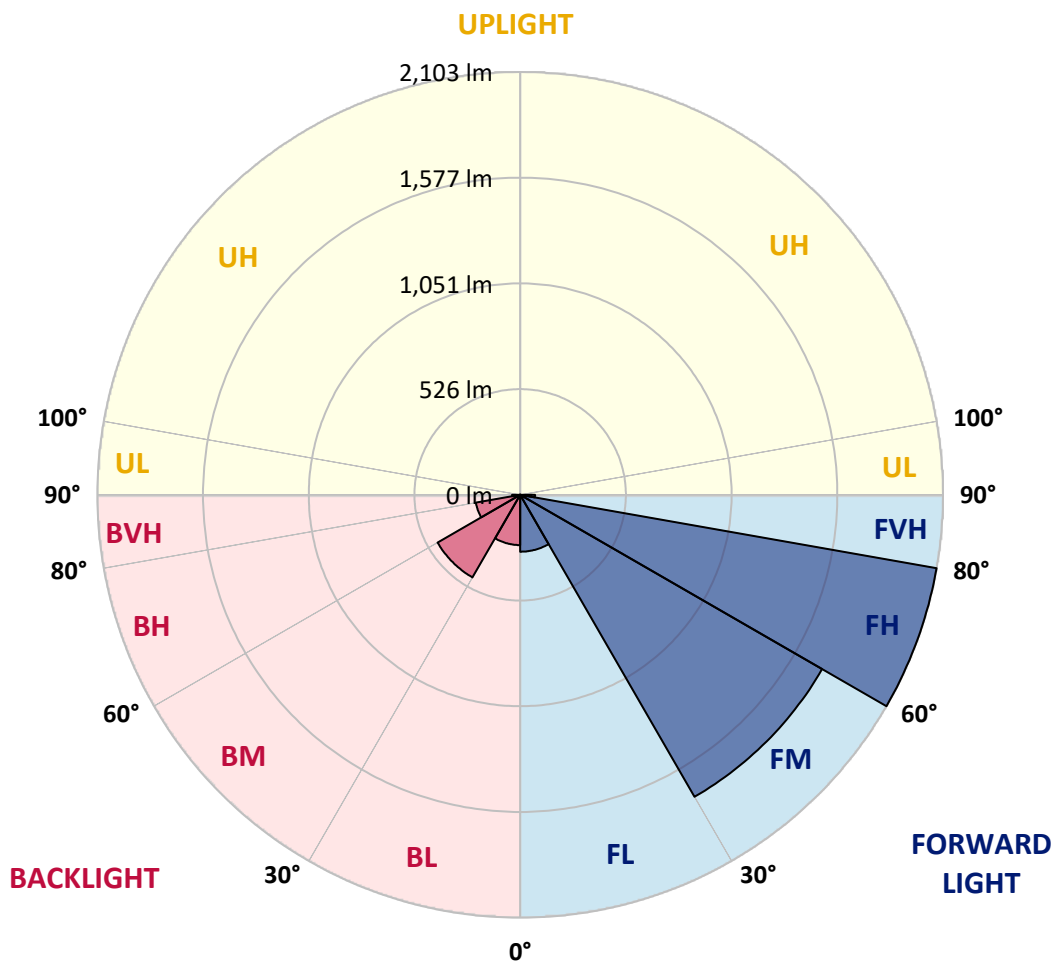
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	283.1	5.5			
FM	(30°-60°)	1734.0	33.5			
FH	(60°-80°)	2103.0	40.6			G2/5000
FVH	(80°-90°)	73.8	1.4			G1/100
BL	(0°-30°)	250.1	4.8	B1/500		
BM	(30°-60°)	474.3	9.2	B1/1000		
BH	(60°-80°)	223.6	4.3	B1/500		G1/500
BVH	(80°-90°)	40.3	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1
2.5°	751.4	752.8	751.1	753.3	757.0	761.0	763.7	767.7	772.2	778.5	779.9
5°	716.0	718.2	718.2	722.2	729.4	735.9	741.8	748.3	757.8	768.4	772.7
7.5°	677.2	678.4	680.7	686.6	697.0	706.2	714.7	725.2	738.2	752.3	759.7
10°	630.3	632.1	635.6	644.0	658.3	671.0	683.1	697.6	714.0	731.6	741.1
12.5°	597.3	596.8	598.2	604.5	616.9	632.4	650.0	668.4	688.5	709.2	720.7
15°	586.0	583.3	577.6	576.1	582.9	598.2	618.7	641.3	665.4	690.3	704.5
17.5°	593.0	588.3	572.6	561.2	560.2	571.8	593.5	618.9	646.8	677.2	694.8
20°	636.8	625.6	587.1	560.5	551.3	557.0	575.8	602.7	635.6	675.9	698.6
22.5°	741.6	725.2	643.3	593.8	562.6	555.7	569.9	598.5	636.8	691.3	720.2
25°	894.2	870.7	739.9	676.9	612.6	575.6	578.9	608.2	654.5	727.2	762.0
27.5°	1014.6	999.4	866.0	794.1	703.8	629.3	607.9	632.6	690.6	785.9	821.5
30°	1086.3	1077.1	1001.0	927.0	820.0	714.9	663.7	678.4	747.1	867.3	896.6
32.5°	1169.4	1163.9	1126.6	1058.7	945.4	827.5	752.1	746.9	822.8	965.1	978.6
35°	1255.5	1253.7	1231.8	1183.0	1080.0	975.8	869.3	833.9	905.1	1066.6	1058.1
37.5°	1335.7	1332.6	1319.9	1291.6	1220.9	1135.1	988.7	923.3	993.9	1163.7	1126.1
40°	1483.2	1459.9	1416.3	1394.9	1363.3	1269.2	1083.5	1006.7	1086.1	1256.3	1184.8
42.5°	1663.1	1625.1	1543.9	1514.6	1510.1	1374.9	1148.3	1087.5	1178.8	1348.0	1242.6
45°	1804.7	1768.9	1698.9	1661.9	1678.4	1470.8	1213.2	1173.8	1274.4	1444.4	1302.0
47.5°	1955.8	1899.5	1806.9	1818.2	1854.0	1561.3	1279.4	1266.7	1379.1	1552.1	1376.0
50°	1961.3	1918.2	1877.6	1944.6	2000.4	1644.7	1362.3	1364.0	1507.3	1687.8	1474.3
52.5°	1847.6	1838.3	1902.8	2008.1	2088.5	1710.7	1456.6	1464.6	1671.3	1843.6	1582.2
55°	1807.8	1797.2	1871.7	1985.9	2100.4	1765.2	1558.9	1573.3	1869.6	2007.8	1687.6
57.5°	1904.7	1881.6	1886.6	1975.4	2071.3	1824.8	1670.4	1699.4	2085.2	2151.4	1755.2
60°	2176.0	2126.5	2032.4	2030.1	2086.9	1914.5	1799.3	1834.9	2309.2	2220.1	1728.8
62.5°	2556.6	2507.0	2330.8	2216.1	2207.6	2062.3	1957.5	1967.0	2438.6	2127.0	1567.8
65°	2968.4	2924.1	2727.3	2565.3	2487.1	2307.2	2141.4	2026.0	2396.3	1870.9	1286.2
67.5°	3468.3	3420.8	3251.6	3102.0	3026.9	2702.3	2270.6	1969.5	2127.7	1449.3	924.5
70°	3818.0	3769.5	3702.8	3824.0	4007.9	3272.5	2287.3	1739.7	1589.3	963.3	556.5
72.5°	3361.8	3339.2	3460.8	3971.3	4737.3	3618.4	2067.5	1266.7	923.0	511.4	322.0
73°	3080.1	3075.2	3282.8	3868.0	4742.5	3565.2	1971.2	1177.3	791.7	452.5	294.4
75°	1390.9	1430.9	1885.8	2954.5	4120.3	2937.8	1387.4	675.5	447.2	312.6	222.2
77.5°	334.2	348.1	590.0	1403.1	2602.1	1750.7	628.6	334.0	285.9	220.8	162.2
80°	142.4	147.1	227.2	518.3	1225.1	705.0	289.7	223.7	197.8	154.1	113.8
82.5°	79.2	84.1	128.9	235.2	494.5	240.4	176.7	155.8	130.1	92.8	74.0
85°	44.8	47.6	75.4	131.3	209.5	96.6	105.8	103.5	73.4	47.8	36.3
87.5°	21.2	22.9	36.3	61.0	82.1	37.8	53.7	59.2	46.0	29.2	18.9
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°	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1
2.5°	781.6	786.1	791.4	794.1	796.6	799.5	802.6	802.6	803.1	803.3
5°	776.2	785.4	793.6	797.1	797.8	797.8	797.1	793.1	789.6	791.2
7.5°	764.8	778.2	785.1	783.9	774.5	763.5	754.3	743.1	737.3	736.4
10°	748.3	763.7	765.0	752.6	729.2	705.7	686.4	667.5	658.5	656.2
12.5°	730.2	744.3	736.4	710.7	673.2	639.0	614.4	595.3	586.8	584.6
15°	715.5	725.2	705.0	664.7	617.5	581.3	560.9	546.8	540.7	539.0
17.5°	707.8	709.7	672.9	618.4	568.1	538.1	525.4	518.6	516.4	515.2
20°	711.5	697.6	642.3	575.4	527.8	506.7	503.7	502.0	501.5	500.7
22.5°	730.2	693.9	614.2	534.6	492.4	483.2	485.8	485.5	485.0	484.6
25°	763.5	697.0	586.8	495.7	462.9	460.8	465.3	465.3	463.4	463.4
27.5°	807.5	703.8	556.2	458.9	436.0	436.3	439.8	438.7	436.5	435.0
30°	861.3	708.0	520.4	425.8	410.8	409.9	410.8	406.6	399.9	399.5
32.5°	916.3	702.8	478.8	396.4	384.2	382.0	381.3	375.3	367.5	365.3
35°	966.1	683.6	436.5	373.1	358.9	353.8	357.3	355.4	348.4	346.7
37.5°	1002.4	648.0	398.4	352.4	340.6	339.4	341.7	342.4	334.2	332.5
40°	1026.8	599.8	365.8	334.9	337.2	332.5	325.0	319.8	317.3	316.5
42.5°	1046.5	549.5	338.5	326.7	338.0	324.3	308.1	299.6	304.1	306.1
45°	1069.1	500.4	315.6	316.5	334.2	314.8	296.3	288.2	289.9	290.4
47.5°	1100.2	440.7	290.9	300.1	321.8	308.3	289.2	277.5	269.2	265.6
50°	1143.2	370.1	265.3	281.7	309.5	303.6	277.9	265.6	250.3	246.8
52.5°	1173.1	304.1	244.2	266.3	298.6	294.2	269.0	252.9	236.9	233.9
55°	1157.0	252.6	225.8	249.1	284.2	282.4	261.6	239.9	227.5	224.9
57.5°	1076.0	220.0	211.5	232.9	266.5	272.5	251.6	228.9	220.0	218.3
60°	921.8	199.6	202.5	222.0	252.1	262.6	241.6	223.0	217.0	215.7
62.5°	715.2	185.9	195.9	214.0	240.9	255.5	236.2	222.2	220.0	218.5
65°	512.4	174.9	188.6	206.0	230.7	249.1	234.2	221.3	221.8	220.4
67.5°	348.1	165.2	179.9	197.1	220.8	243.4	231.4	217.8	223.9	222.5
70°	243.7	155.8	169.7	185.7	208.3	235.4	226.5	212.6	212.1	206.0
72.5°	190.2	143.3	155.8	169.7	192.4	224.2	216.6	200.8	192.6	186.4
73°	181.4	140.3	152.3	166.2	188.8	221.5	213.8	197.6	188.4	182.7
75°	150.1	127.5	138.4	150.8	173.9	208.6	200.3	182.9	171.2	167.8
77.5°	117.9	109.0	119.5	130.6	153.3	189.7	180.4	163.8	157.3	154.3
80°	87.4	90.3	99.5	109.5	132.9	169.5	161.2	144.5	173.5	166.2
82.5°	61.5	68.4	76.9	85.8	111.5	149.9	139.8	122.7	126.9	105.5
85°	36.3	44.8	52.8	60.5	80.4	124.2	115.5	97.8	80.1	76.4
87.5°	21.2	24.9	27.1	35.1	55.2	93.6	81.4	72.4	41.5	28.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)