

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: P191439

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5152.6 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

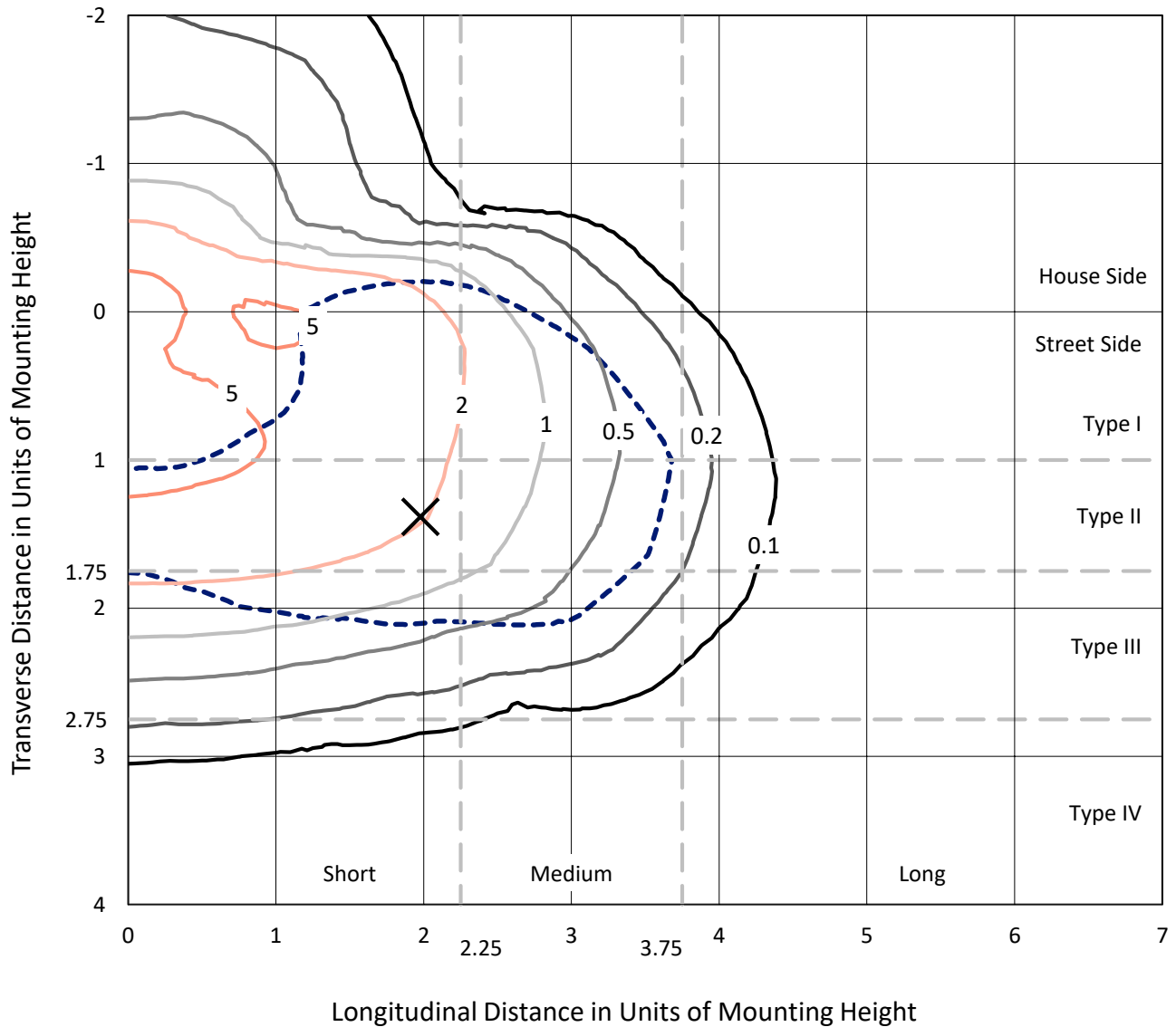
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

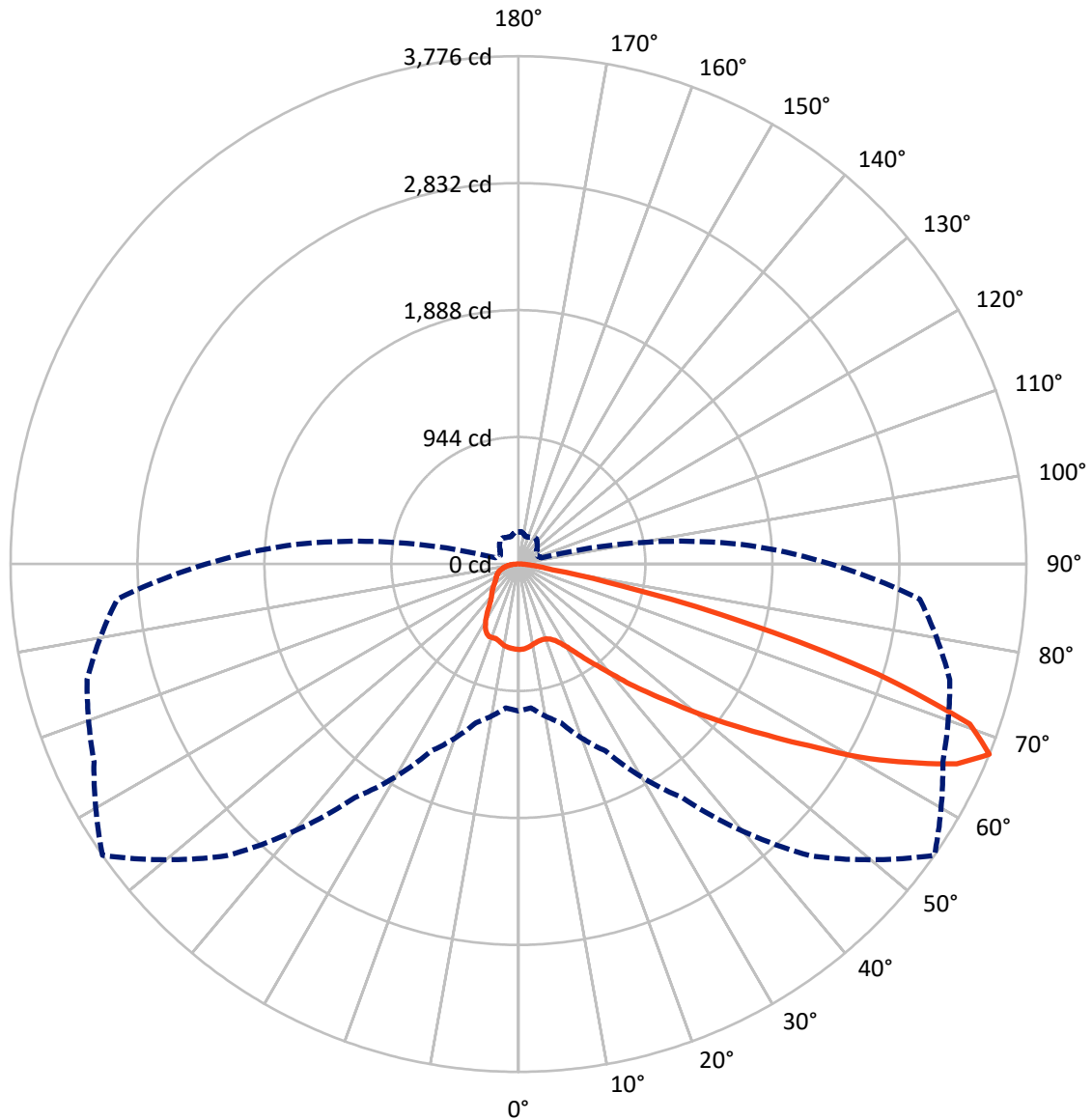
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1113.1	0.0	1113.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	4039.5	0.0	4039.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	5152.6	0.0	5152.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	1.2
10°-20°	168.0	3.3
20°-30°	281.4	5.5
30°-40°	462.7	9.0
40°-50°	778.8	15.1
50°-60°	1225.8	23.8
60°-70°	1462.9	28.4
70°-80°	628.2	12.2
80°-90°	85.6	1.7
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°	5152.6	100.0
0°-180°	5152.6	100.0



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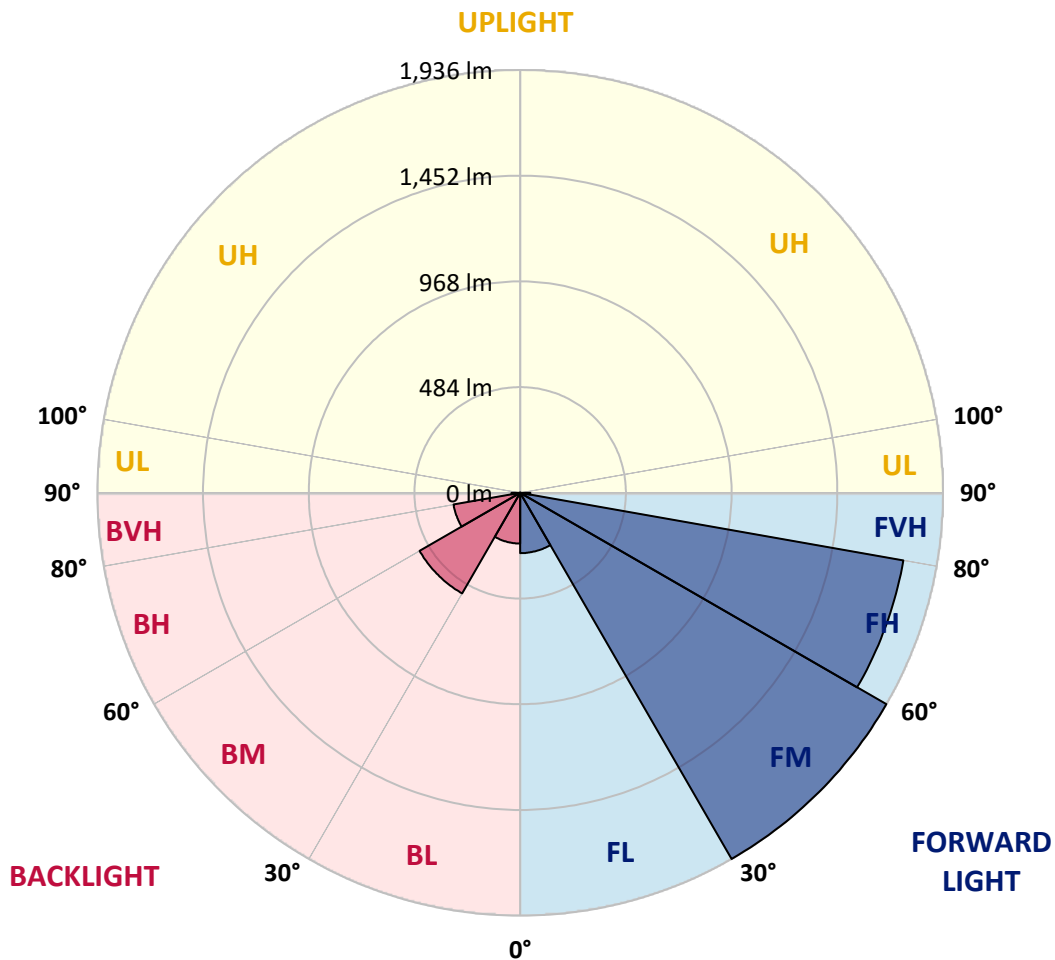
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.2	5.4			
FM	(30°-60°)	1935.7	37.6			
FH	(60°-80°)	1781.3	34.6			G1/1800
FVH	(80°-90°)	46.4	0.9			G1/100
BL	(0°-30°)	232.4	4.5	B1/500		
BM	(30°-60°)	531.6	10.3	B1/1000		
BH	(60°-80°)	309.8	6.0	B1/500		G1/500
BVH	(80°-90°)	39.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4
2.5°	629.9	630.1	630.6	632.6	634.3	633.9	634.1	633.1	632.9	631.4	632.9
5°	622.0	622.7	623.0	626.1	628.2	628.6	627.9	626.7	625.1	623.7	624.4
7.5°	603.7	605.8	606.0	610.5	613.8	618.0	618.2	618.5	617.7	616.7	618.2
10°	592.3	592.8	592.6	595.8	598.3	603.0	605.8	610.5	612.4	613.0	614.0
12.5°	591.6	591.1	590.3	590.3	589.6	591.6	596.6	603.2	608.0	609.5	610.7
15°	599.6	599.2	596.8	593.1	588.3	586.9	591.1	598.5	604.8	608.0	609.3
17.5°	617.5	615.9	611.9	603.5	593.3	589.3	589.8	596.1	603.2	607.5	608.8
20°	650.3	650.3	641.8	625.9	607.7	598.3	593.8	597.5	604.5	610.2	611.9
22.5°	707.1	707.6	693.4	667.3	636.6	616.4	605.3	604.5	612.7	619.2	621.1
25°	787.5	785.4	765.6	728.2	681.7	648.3	628.9	624.4	631.4	638.6	641.1
27.5°	881.0	873.8	850.2	805.1	744.9	696.1	666.2	659.0	665.7	673.9	676.5
30°	973.5	966.1	938.0	888.7	821.7	760.1	717.3	705.5	715.0	726.7	728.2
32.5°	1066.2	1066.2	1034.8	977.3	904.4	836.5	785.2	771.3	787.0	801.1	804.3
35°	1176.9	1177.4	1147.0	1077.9	999.4	927.5	871.0	860.8	884.4	894.5	902.1
37.5°	1313.1	1315.8	1276.7	1193.1	1107.2	1031.5	964.3	950.4	974.1	1001.3	1026.1
40°	1460.2	1463.6	1420.6	1317.6	1231.6	1152.6	1079.8	1054.8	1094.0	1145.8	1177.9
42.5°	1600.5	1618.4	1576.9	1470.8	1378.5	1296.6	1222.9	1186.4	1235.6	1313.8	1341.7
45°	1803.4	1816.2	1743.8	1647.8	1560.9	1469.4	1371.8	1333.2	1402.2	1500.7	1506.4
47.5°	1938.5	1928.8	1891.9	1832.2	1777.2	1691.6	1544.8	1502.4	1594.1	1710.0	1677.9
50°	2010.4	2013.4	2008.4	2011.8	2013.9	1960.1	1756.8	1698.8	1808.1	1948.2	1874.3
52.5°	2077.6	2057.7	2074.1	2155.8	2254.3	2234.3	1987.5	1927.0	2037.5	2212.4	2081.8
55°	2076.1	2045.7	2099.2	2243.3	2457.1	2480.0	2246.6	2176.8	2280.2	2495.9	2301.8
57.5°	2002.6	2004.2	2086.5	2275.1	2598.5	2710.9	2547.2	2442.7	2537.5	2783.1	2502.6
60°	1901.7	1915.4	2034.0	2269.9	2711.7	2900.4	2916.0	2729.1	2789.6	3044.2	2668.9
62.5°	1738.6	1753.0	1916.8	2215.7	2694.6	3082.8	3249.5	3054.1	3053.2	3202.4	2717.7
65°	1481.5	1477.3	1649.3	2012.9	2550.4	3217.7	3580.7	3335.1	3251.8	3205.0	2619.7
67.5°	1092.5	1073.6	1221.2	1533.1	2119.9	3066.6	3775.6	3481.5	3319.5	2994.2	2320.0
70°	566.9	548.0	667.5	895.2	1394.2	2393.4	3559.9	3405.8	3169.9	2509.9	1817.5
72.5°	242.4	239.2	287.7	392.7	674.4	1380.5	2791.3	2947.9	2719.9	1870.1	1249.6
75°	163.1	162.0	180.1	214.0	303.4	560.2	1746.8	2092.5	1989.9	1159.5	702.8
77.5°	128.0	126.6	137.4	153.9	196.6	221.0	775.2	1123.4	1039.8	504.7	307.6
80°	100.0	99.0	105.8	114.8	141.4	139.3	255.1	446.9	346.0	193.3	149.6
82.5°	78.9	78.9	84.4	84.6	100.2	95.0	133.2	196.8	172.7	112.7	91.6
85°	72.2	72.2	77.8	63.2	65.5	59.9	82.7	116.7	109.5	46.3	39.8
87.5°	36.3	35.3	65.5	56.0	35.6	31.8	40.3	56.5	60.8	25.7	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°	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4
2.5°	632.4	632.2	632.6	632.9	634.8	637.6	638.8	640.6	641.6	641.1
5°	624.9	625.4	627.4	628.9	632.4	636.9	639.3	641.4	643.1	642.3
7.5°	618.7	619.9	623.0	624.2	626.1	627.4	627.2	627.9	629.4	627.7
10°	615.2	616.7	619.0	617.2	612.4	605.8	599.6	596.3	597.3	596.1
12.5°	611.7	613.8	611.9	603.7	590.5	581.9	577.1	577.7	579.9	580.4
15°	609.8	610.5	603.0	587.6	574.2	573.0	575.4	574.9	575.1	575.1
17.5°	609.8	607.7	593.8	578.4	572.6	570.4	562.7	553.0	548.8	547.3
20°	613.0	607.7	590.9	580.6	568.1	549.0	528.6	510.7	502.7	500.5
22.5°	622.7	613.8	599.2	581.6	546.3	514.1	481.8	460.4	446.0	443.4
25°	642.3	632.4	615.9	568.5	511.5	465.6	428.8	404.9	390.5	388.5
27.5°	676.7	670.2	624.9	539.3	465.1	416.1	382.0	363.6	352.9	352.2
30°	728.4	725.2	620.4	496.2	408.2	368.1	351.7	340.9	333.0	332.8
32.5°	811.1	784.9	605.8	443.8	356.1	334.0	327.2	320.8	314.6	314.6
35°	917.4	833.2	577.9	387.5	324.5	315.1	306.6	296.5	288.2	287.7
37.5°	1042.3	863.1	527.8	342.2	309.6	302.4	289.9	274.8	260.3	257.8
40°	1168.4	872.1	457.5	314.4	300.1	289.7	274.5	256.6	242.6	241.9
42.5°	1284.2	854.9	382.8	295.1	290.7	276.7	260.9	244.9	233.9	233.6
45°	1381.3	810.3	320.1	277.0	280.7	265.0	250.8	237.9	229.4	227.7
47.5°	1472.5	747.4	276.0	257.8	270.8	258.6	246.6	234.5	226.2	224.9
50°	1578.6	679.4	245.1	239.2	262.1	256.4	250.1	237.4	223.7	222.3
52.5°	1707.0	620.7	221.0	222.7	255.3	259.3	259.1	245.9	222.0	220.0
55°	1850.4	555.5	202.9	209.3	252.6	264.8	261.4	253.9	223.5	220.5
57.5°	1991.5	479.4	190.2	199.1	248.6	264.3	250.6	239.9	227.0	222.7
60°	2097.3	377.1	180.4	190.2	239.9	256.0	239.0	224.7	226.2	223.0
62.5°	2104.2	291.4	168.8	182.4	226.7	247.9	231.2	218.0	229.4	226.5
65°	1980.5	220.2	157.5	173.2	212.6	242.6	223.7	214.3	236.2	232.9
67.5°	1667.4	177.2	148.1	163.8	198.4	231.7	217.0	210.8	242.1	236.4
70°	1203.8	151.1	138.9	152.3	185.7	219.2	211.0	204.6	226.0	217.0
72.5°	741.1	130.9	128.4	137.2	175.9	206.3	202.1	192.8	203.6	196.4
75°	370.1	113.4	116.7	122.2	162.2	191.6	187.2	178.0	179.4	178.0
77.5°	177.2	97.1	103.0	107.3	144.6	174.9	170.2	160.8	159.1	159.3
80°	112.2	81.1	86.8	89.8	129.2	155.6	150.8	141.4	161.3	149.6
82.5°	70.2	66.0	67.4	72.9	112.5	135.3	129.2	120.7	145.4	115.0
85°	38.9	46.0	48.1	52.8	86.6	113.2	107.0	96.4	86.3	84.9
87.5°	23.1	27.4	28.1	31.6	58.2	81.8	72.4	68.6	57.0	56.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)