

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: P193989

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193989
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-T3-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5087 lumens
Efficiency: N/A
Efficacy: 86.2 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): 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

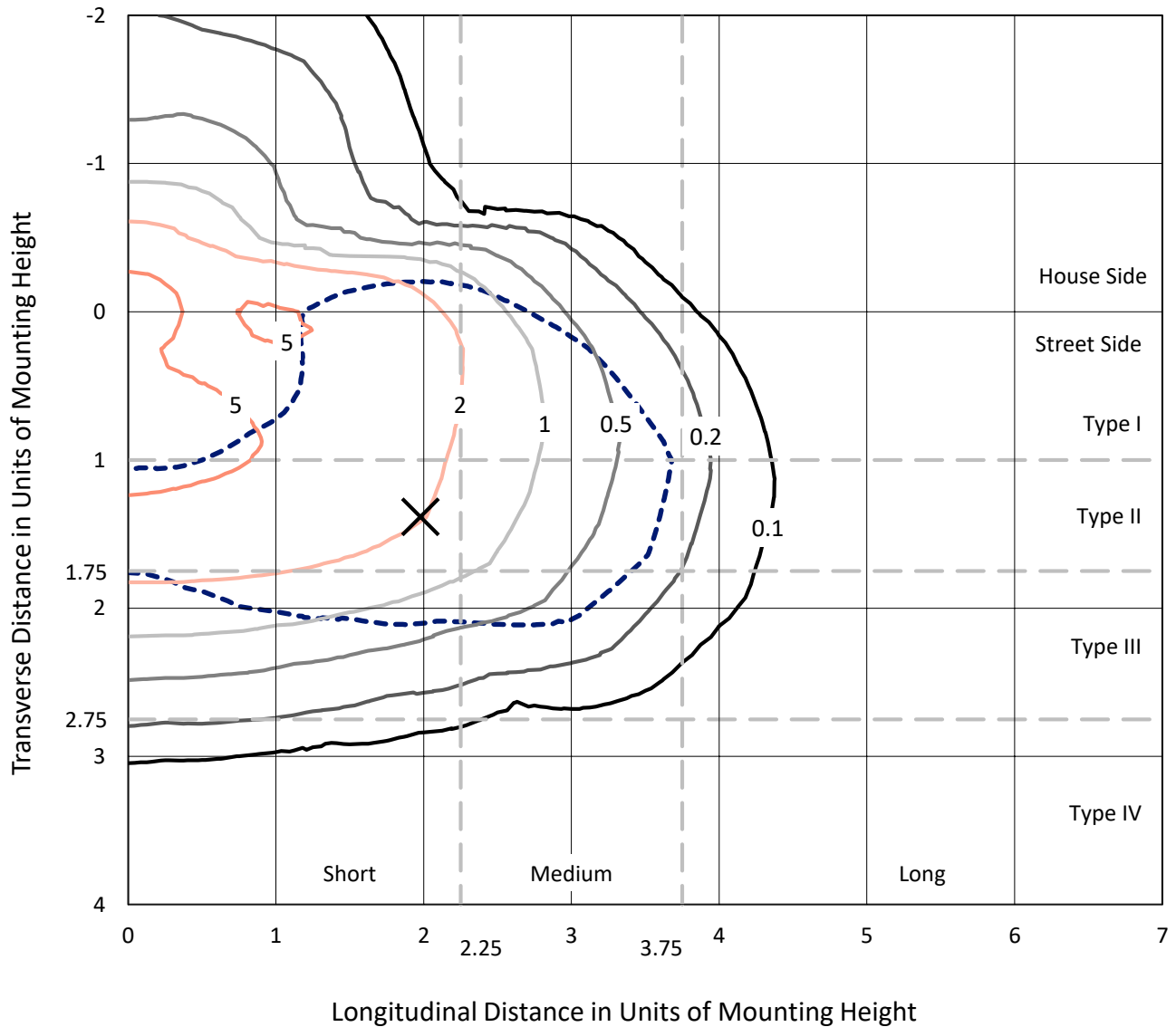


REPORT NUMBER: P193989

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

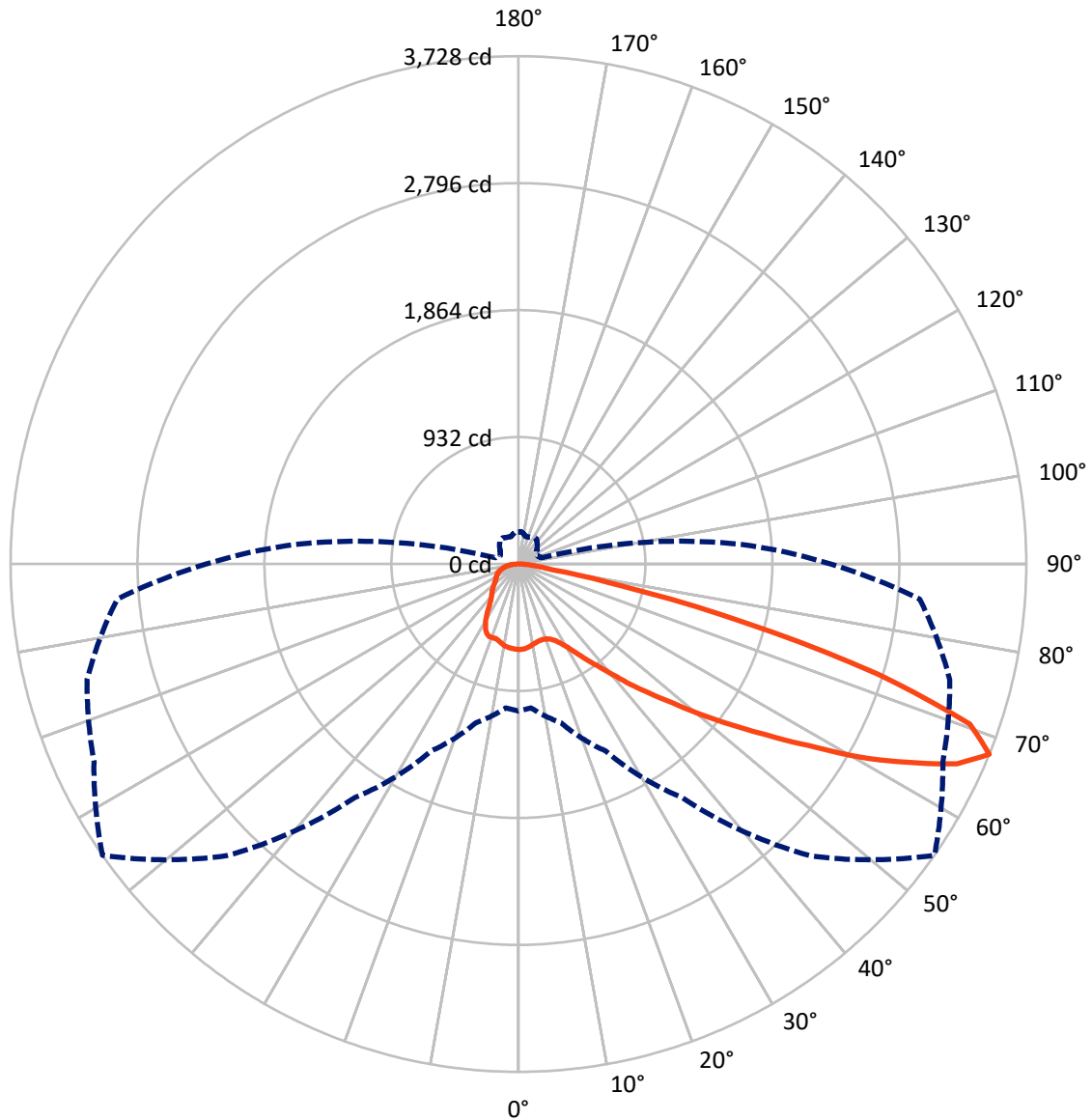


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193989

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193989

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1098.9	0.0	1098.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	3988.1	0.0	3988.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	5087.0	0.0	5087.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	1.2
10°-20°	165.8	3.3
20°-30°	277.8	5.5
30°-40°	456.8	9.0
40°-50°	768.9	15.1
50°-60°	1210.2	23.8
60°-70°	1444.2	28.4
70°-80°	620.2	12.2
80°-90°	84.6	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°	5087.0	100.0
0°-180°	5087.0	100.0



REPORT NUMBER: P193989

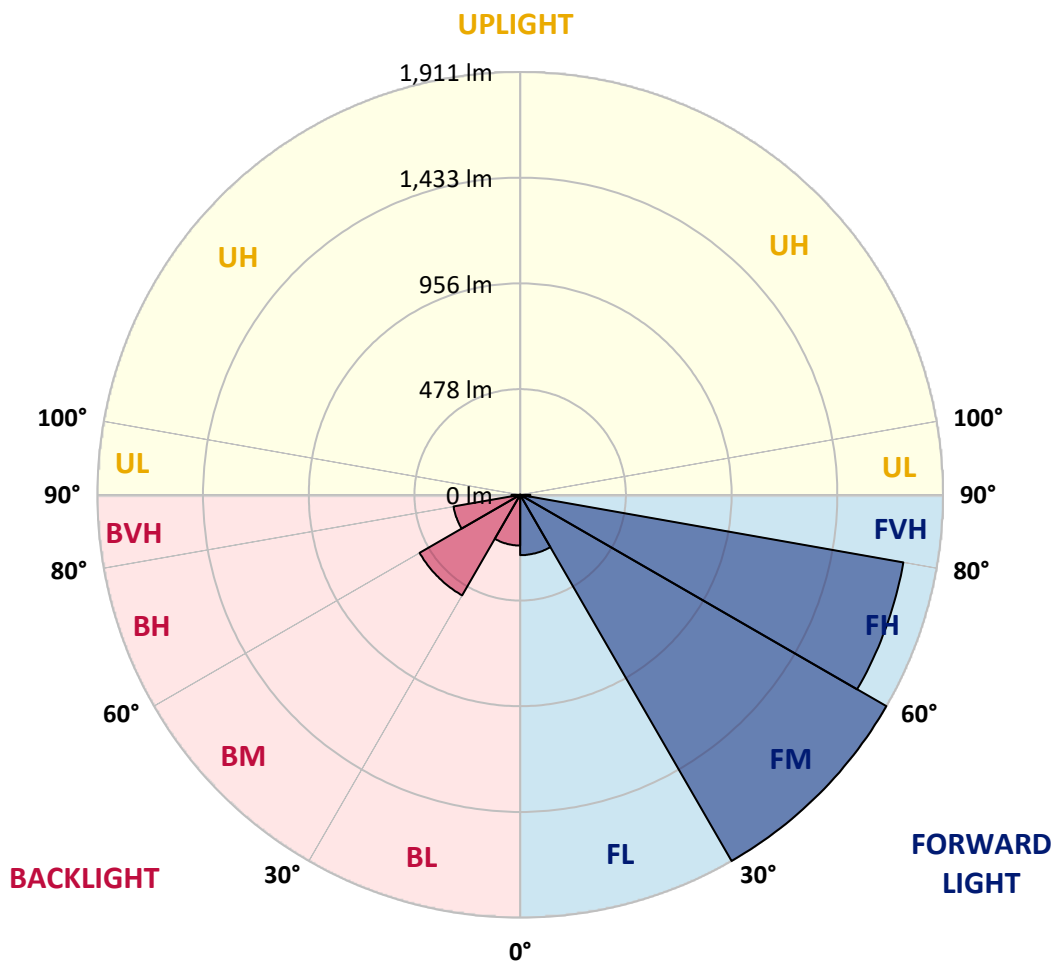
CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	272.7	5.4			
FM	(30°-60°)	1911.1	37.6			
FH	(60°-80°)	1758.6	34.6			G1/1800
FVH	(80°-90°)	45.8	0.9			G1/100
BL	(0°-30°)	229.5	4.5	B1/500		
BM	(30°-60°)	524.8	10.3	B1/1000		
BH	(60°-80°)	305.8	6.0	B1/500		G1/500
BVH	(80°-90°)	38.8	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





REPORT NUMBER: P193989

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	627.3	627.3	627.3	627.3	627.3	627.3	627.3	627.3	627.3	627.3	627.3
2.5°	621.9	622.1	622.6	624.6	626.3	625.8	626.1	625.1	624.8	623.4	624.8
5°	614.0	614.8	615.0	618.2	620.2	620.6	619.9	618.7	617.2	615.7	616.5
7.5°	596.1	598.0	598.3	602.7	605.9	610.1	610.3	610.6	609.8	608.9	610.3
10°	584.8	585.3	585.0	588.2	590.7	595.3	598.0	602.7	604.7	605.2	606.2
12.5°	584.0	583.5	582.8	582.8	582.1	584.0	589.0	595.6	600.3	601.7	603.0
15°	591.9	591.7	589.2	585.5	580.8	579.4	583.5	590.9	597.1	600.3	601.5
17.5°	609.6	608.1	604.2	595.8	585.8	581.8	582.3	588.5	595.6	599.8	601.0
20°	642.0	642.0	633.7	617.9	600.0	590.7	586.3	589.9	596.8	602.5	604.2
22.5°	698.0	698.5	684.5	658.7	628.5	608.6	597.6	596.8	604.9	611.3	613.3
25°	777.4	775.4	755.8	718.9	673.0	640.1	620.9	616.5	623.4	630.5	632.9
27.5°	869.8	862.7	839.3	794.9	735.4	687.2	657.7	650.6	657.3	665.4	667.8
30°	961.2	953.8	926.1	877.4	811.3	750.4	708.1	696.6	705.9	717.5	718.9
32.5°	1052.6	1052.6	1021.6	964.9	892.9	825.8	775.2	761.4	776.9	790.9	794.1
35°	1161.9	1162.4	1132.5	1064.1	986.7	915.7	860.0	849.9	873.2	883.1	890.7
37.5°	1296.3	1299.0	1260.5	1177.9	1093.1	1018.4	952.1	938.3	961.7	988.5	1013.0
40°	1441.5	1445.0	1402.5	1300.8	1216.0	1137.9	1066.1	1041.3	1080.1	1131.2	1162.9
42.5°	1580.1	1597.8	1556.8	1452.1	1361.0	1280.1	1207.4	1171.3	1219.9	1297.1	1324.6
45°	1780.4	1793.1	1721.6	1626.8	1541.1	1450.6	1354.3	1316.2	1384.3	1481.6	1487.2
47.5°	1913.8	1904.2	1867.8	1808.9	1754.6	1670.1	1525.1	1483.3	1573.7	1688.2	1656.5
50°	1984.8	1987.7	1982.8	1986.3	1988.2	1935.2	1734.4	1677.2	1785.0	1923.4	1850.4
52.5°	2051.1	2031.5	2047.7	2128.3	2225.6	2205.9	1962.2	1902.5	2011.6	2184.3	2055.3
55°	2049.7	2019.7	2072.5	2214.8	2425.8	2448.4	2218.0	2149.2	2251.1	2464.2	2272.5
57.5°	1977.2	1978.7	2060.0	2246.2	2565.4	2676.5	2514.8	2411.6	2505.2	2747.7	2470.8
60°	1877.4	1890.9	2008.1	2241.1	2677.2	2863.4	2878.9	2694.4	2754.1	3005.5	2634.9
62.5°	1716.5	1730.7	1892.4	2187.5	2660.2	3043.5	3208.2	3015.3	3014.3	3161.7	2683.1
65°	1462.7	1458.5	1628.3	1987.3	2518.0	3176.7	3535.2	3292.7	3210.4	3164.2	2586.3
67.5°	1078.6	1060.0	1205.7	1513.5	2092.9	3027.6	3727.6	3437.2	3277.2	2956.1	2290.5
70°	559.7	541.0	659.0	883.8	1376.4	2362.9	3514.6	3362.5	3129.5	2477.9	1794.4
72.5°	239.3	236.1	284.0	387.7	665.9	1362.9	2755.8	2910.4	2685.3	1846.2	1233.7
75°	160.9	160.0	177.9	211.3	299.5	553.1	1724.6	2065.9	1964.7	1144.7	693.9
77.5°	126.3	125.1	135.6	151.8	194.1	218.2	765.4	1109.1	1026.6	498.3	303.7
80°	98.8	97.8	104.4	113.3	139.6	137.6	251.8	441.3	341.5	190.9	147.7
82.5°	77.9	77.9	83.3	83.5	99.0	93.9	131.5	194.4	170.5	111.3	90.4
85°	71.3	71.3	76.9	62.4	64.6	59.2	81.6	115.2	108.1	45.7	39.3
87.5°	35.9	34.9	64.6	55.3	35.1	31.5	39.8	55.8	60.0	25.3	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193989

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-8030

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	627.3	627.3	627.3	627.3	627.3	627.3	627.3	627.3	627.3	627.3
2.5°	624.3	624.1	624.6	624.8	626.8	629.5	630.7	632.4	633.4	632.9
5°	617.0	617.5	619.4	620.9	624.3	628.8	631.2	633.2	634.9	634.2
7.5°	610.8	612.0	615.0	616.2	618.2	619.4	619.2	619.9	621.4	619.7
10°	607.4	608.9	611.1	609.3	604.7	598.0	591.9	588.7	589.7	588.5
12.5°	603.9	605.9	604.2	596.1	583.1	574.5	569.8	570.3	572.5	573.0
15°	602.0	602.7	595.3	580.1	566.8	565.6	568.1	567.6	567.8	567.8
17.5°	602.0	600.0	586.3	571.0	565.4	563.2	555.5	546.0	541.8	540.3
20°	605.2	600.0	583.3	573.2	560.9	542.0	521.9	504.2	496.3	494.1
22.5°	614.8	605.9	591.7	574.2	539.3	507.6	475.7	454.6	440.3	437.8
25°	634.2	624.3	608.1	561.2	504.9	459.7	423.3	399.8	385.5	383.5
27.5°	668.1	661.7	617.0	532.4	459.2	410.8	377.2	359.0	348.4	347.7
30°	719.2	716.0	612.5	489.9	403.0	363.4	347.2	336.6	328.8	328.5
32.5°	800.7	775.0	598.0	438.1	351.6	329.7	323.1	316.7	310.6	310.6
35°	905.7	822.6	570.5	382.6	320.4	311.1	302.7	292.6	284.5	284.0
37.5°	1029.0	852.1	521.1	337.8	305.7	298.5	286.2	271.3	257.0	254.5
40°	1153.6	860.9	451.6	310.3	296.3	286.0	271.0	253.3	239.6	238.8
42.5°	1267.8	844.0	377.9	291.4	287.0	273.2	257.5	241.8	231.0	230.7
45°	1363.7	800.0	316.0	273.5	277.2	261.7	247.7	234.9	226.5	224.8
47.5°	1453.8	737.8	272.5	254.5	267.3	255.3	243.5	231.5	223.3	222.1
50°	1558.5	670.8	242.0	236.1	258.7	253.1	246.9	234.4	220.9	219.4
52.5°	1685.3	612.8	218.2	219.9	252.1	256.0	255.8	242.8	219.2	217.2
55°	1826.8	548.4	200.2	206.6	249.4	261.4	258.0	250.6	220.6	217.7
57.5°	1966.1	473.2	187.7	196.6	245.5	260.9	247.4	236.9	224.1	219.9
60°	2070.5	372.2	178.1	187.7	236.9	252.8	235.9	221.9	223.3	220.2
62.5°	2077.4	287.7	166.6	180.1	223.8	244.7	228.3	215.2	226.5	223.6
65°	1955.3	217.4	155.5	171.0	209.8	239.6	220.9	211.6	233.2	230.0
67.5°	1646.2	174.9	146.2	161.7	195.8	228.8	214.3	208.1	239.1	233.4
70°	1188.5	149.1	137.1	150.4	183.3	216.5	208.4	202.0	223.1	214.3
72.5°	731.7	129.2	126.8	135.4	173.7	203.7	199.5	190.4	201.0	193.9
75°	365.4	112.0	115.2	120.6	160.2	189.2	184.8	175.7	177.2	175.7
77.5°	174.9	95.8	101.7	105.9	142.8	172.7	168.1	158.7	157.0	157.3
80°	110.8	80.1	85.8	88.7	127.5	153.6	148.9	139.6	159.2	147.7
82.5°	69.3	65.1	66.6	72.0	111.1	133.7	127.5	119.2	143.5	113.5
85°	38.3	45.5	47.4	52.1	85.5	111.8	105.7	95.1	85.3	83.8
87.5°	22.9	27.0	27.8	31.2	57.5	80.8	71.5	67.8	56.3	56.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)