

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: P269028

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269028
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-T3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5940.9 lumens
Efficiency: N/A
Efficacy: 88.7 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 - 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

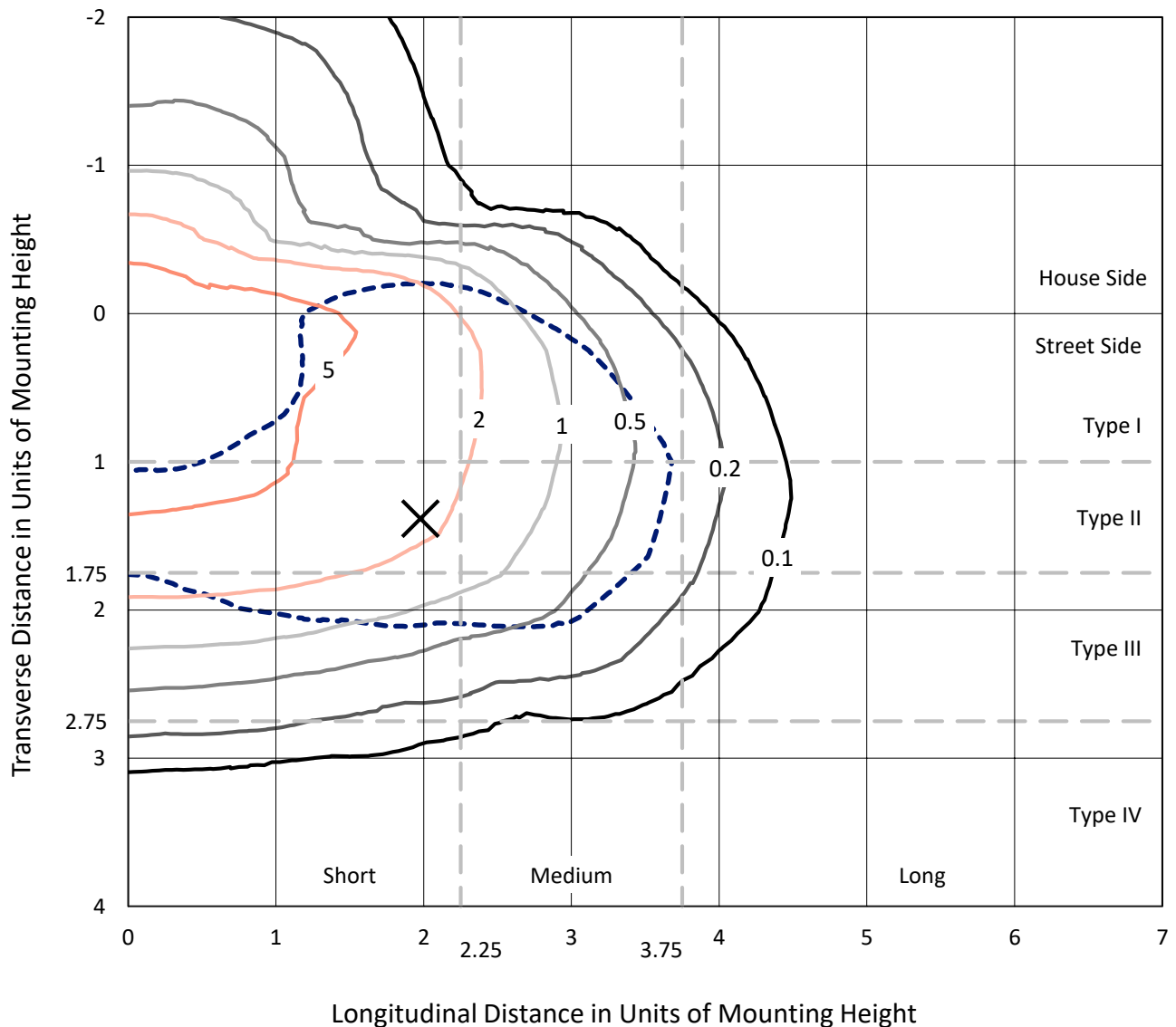


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Iso-Footcandle Lines of Horizontal Illumination

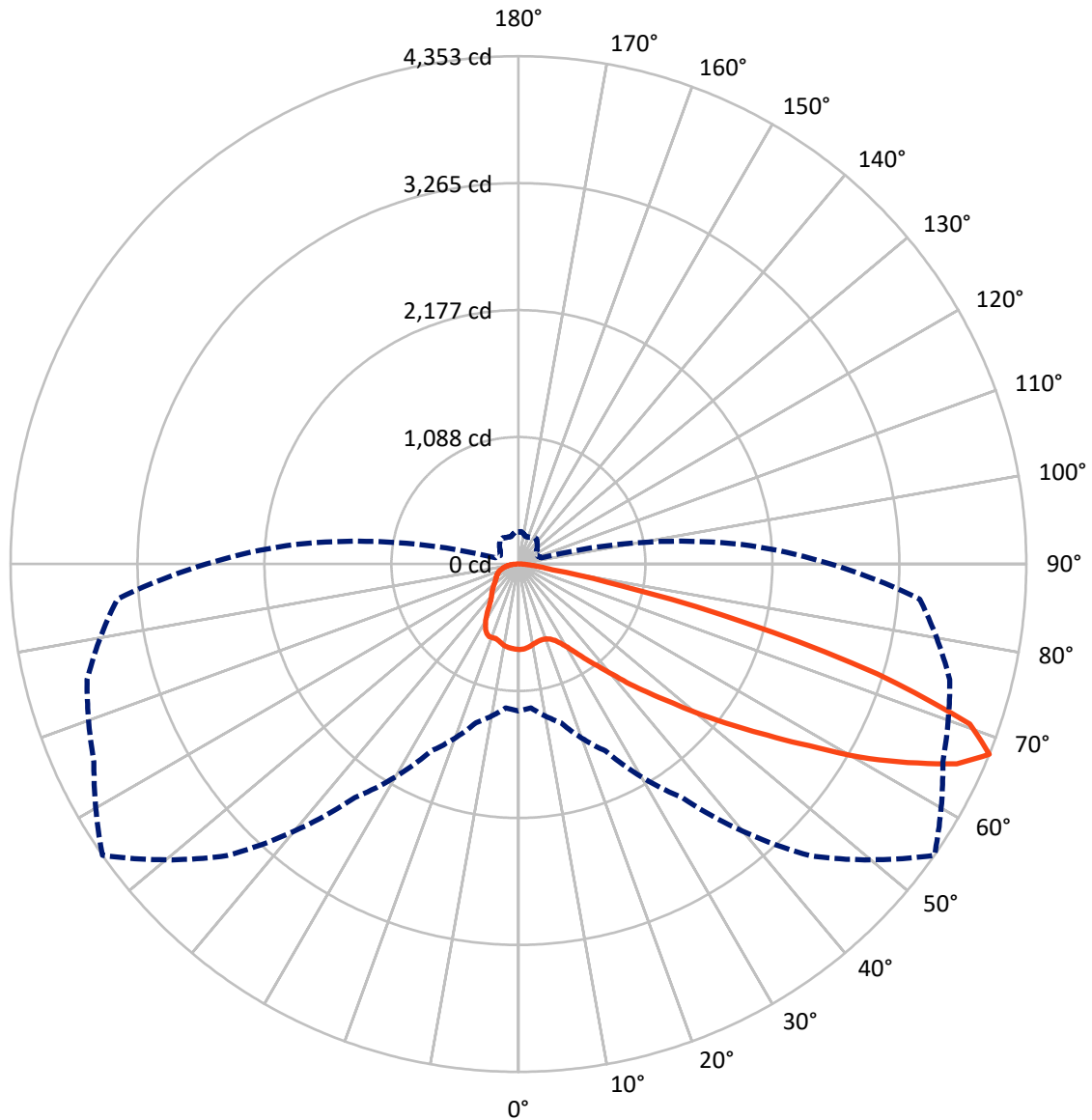
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 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	1283.4	0.0	1283.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	4657.6	0.0	4657.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	5940.9	0.0	5940.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	1.2
10°-20°	193.7	3.3
20°-30°	324.4	5.5
30°-40°	533.5	9.0
40°-50°	898.0	15.1
50°-60°	1413.3	23.8
60°-70°	1686.7	28.4
70°-80°	724.3	12.2
80°-90°	98.7	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°	5940.9	100.0
0°-180°	5940.9	100.0



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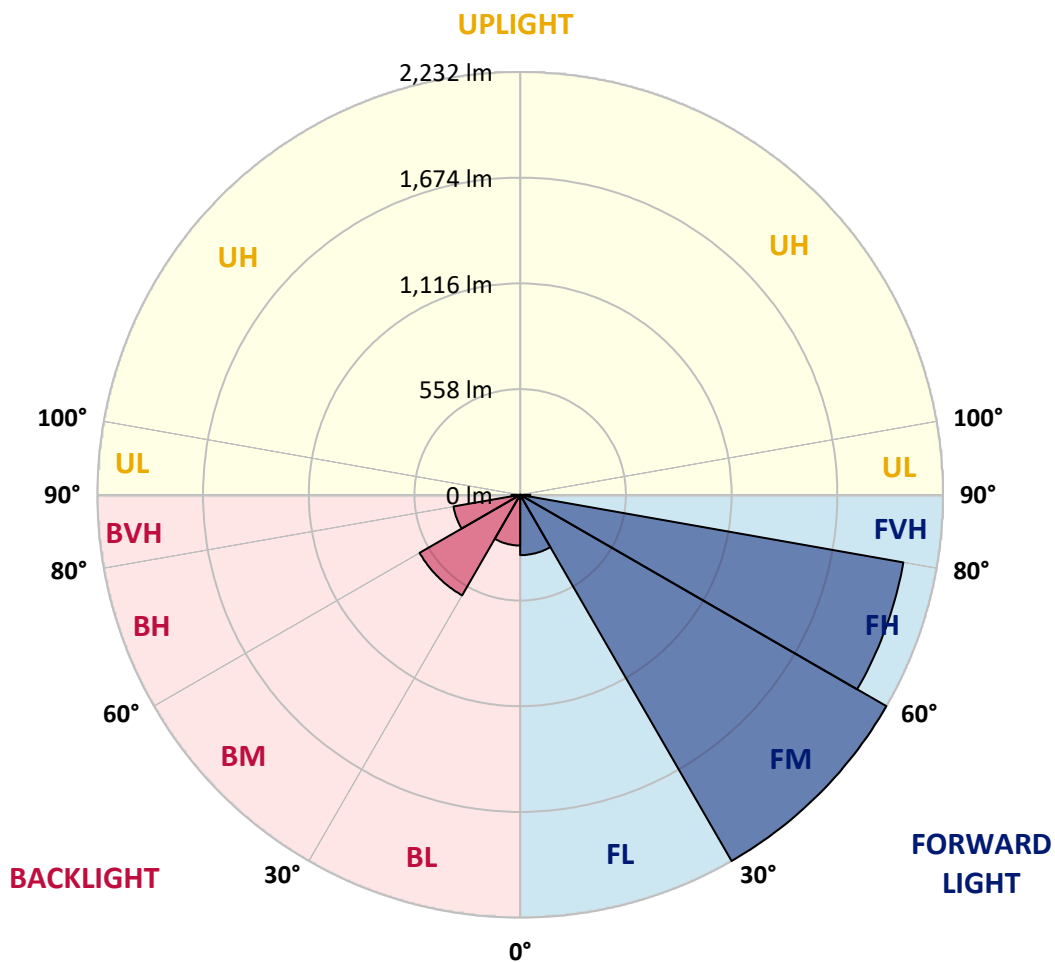
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.4	5.4			
FM	(30°-60°)	2231.8	37.6			
FH	(60°-80°)	2053.8	34.6			G2/5000
FVH	(80°-90°)	53.5	0.9			G1/100
BL	(0°-30°)	268.0	4.5	B1/500		
BM	(30°-60°)	612.9	10.3	B1/1000		
BH	(60°-80°)	357.2	6.0	B1/500		G1/500
BVH	(80°-90°)	45.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6
2.5°	726.3	726.5	727.1	729.5	731.4	730.9	731.1	730.1	729.8	727.9	729.8
5°	717.0	717.9	718.3	722.0	724.3	724.8	723.9	722.5	720.8	719.2	719.9
7.5°	696.1	698.4	698.7	703.9	707.7	712.4	712.7	713.1	712.1	711.1	712.7
10°	682.9	683.5	683.3	686.9	689.8	695.3	698.4	703.9	706.2	706.7	708.0
12.5°	682.1	681.5	680.6	680.6	679.7	682.1	687.8	695.6	700.9	702.7	704.2
15°	691.2	690.9	688.1	683.8	678.3	676.7	681.5	690.1	697.3	700.9	702.5
17.5°	711.9	710.2	705.6	695.8	684.1	679.5	680.0	687.3	695.6	700.5	701.8
20°	749.7	749.7	740.1	721.7	700.7	689.8	684.7	689.0	696.9	703.6	705.6
22.5°	815.2	815.8	799.4	769.3	734.0	710.7	697.9	696.9	706.4	714.0	716.2
25°	907.8	905.6	882.7	839.6	785.9	747.5	725.1	719.9	727.9	736.3	739.1
27.5°	1015.9	1007.4	980.2	928.3	858.8	802.5	768.2	759.8	767.6	777.0	779.9
30°	1122.5	1114.0	1081.5	1024.6	947.5	876.3	827.0	813.4	824.5	837.8	839.6
32.5°	1229.3	1229.3	1193.0	1126.8	1042.8	964.4	905.3	889.2	907.3	923.6	927.4
35°	1357.0	1357.6	1322.6	1242.7	1152.3	1069.4	1004.3	992.5	1019.8	1031.3	1040.1
37.5°	1514.0	1517.1	1472.1	1375.7	1276.6	1189.4	1111.9	1095.8	1123.2	1154.4	1183.1
40°	1683.6	1687.6	1637.9	1519.2	1420.1	1328.9	1245.1	1216.0	1261.4	1321.0	1358.1
42.5°	1845.4	1866.0	1818.1	1695.9	1589.5	1495.0	1410.1	1367.8	1424.7	1514.8	1546.9
45°	2079.2	2094.2	2010.6	1899.8	1799.8	1694.2	1581.6	1537.2	1616.7	1730.2	1737.0
47.5°	2235.1	2223.8	2181.4	2112.5	2049.2	1950.4	1781.1	1732.3	1837.9	1971.6	1934.6
50°	2317.9	2321.4	2315.7	2319.8	2321.9	2260.0	2025.6	1958.8	2084.6	2246.2	2161.1
52.5°	2395.4	2372.6	2391.4	2485.5	2599.2	2576.2	2291.5	2221.9	2349.2	2550.9	2400.4
55°	2393.8	2358.7	2420.5	2586.6	2833.1	2859.5	2590.4	2510.0	2629.0	2877.8	2654.0
57.5°	2309.1	2310.8	2405.8	2623.3	2996.0	3125.7	2936.9	2816.4	2925.7	3208.9	2885.5
60°	2192.6	2208.4	2345.3	2617.2	3126.6	3344.1	3362.1	3146.7	3216.4	3509.9	3077.2
62.5°	2004.6	2021.2	2210.1	2554.7	3106.8	3554.5	3746.7	3521.4	3520.3	3692.5	3133.5
65°	1708.1	1703.4	1901.6	2320.9	2940.6	3710.0	4128.6	3845.4	3749.3	3695.3	3020.5
67.5°	1259.8	1238.0	1408.1	1767.7	2444.2	3535.8	4353.2	4014.2	3827.3	3452.2	2675.0
70°	653.6	631.9	769.6	1032.2	1607.4	2759.6	4104.5	3926.9	3654.8	2893.9	2095.6
72.5°	279.6	275.8	331.7	452.7	777.7	1591.6	3218.4	3398.8	3136.1	2156.1	1440.8
75°	187.9	186.8	207.8	246.8	349.8	645.9	2014.1	2412.7	2294.5	1336.9	810.4
77.5°	147.5	146.1	158.5	177.3	226.7	254.8	893.9	1295.3	1198.9	581.9	354.7
80°	115.3	114.3	122.0	132.3	163.0	160.6	294.1	515.4	398.8	223.0	172.5
82.5°	91.0	91.0	97.2	97.6	115.6	109.7	153.5	227.0	199.2	130.0	105.6
85°	83.3	83.3	89.8	72.9	75.5	69.2	95.3	134.6	126.2	53.4	46.0
87.5°	42.0	40.8	75.5	64.6	41.1	36.7	46.5	65.1	70.0	29.6	22.9
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°	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6
2.5°	729.2	728.9	729.5	729.8	731.9	735.2	736.6	738.5	739.8	739.1
5°	720.5	721.1	723.3	725.1	729.2	734.4	737.1	739.5	741.6	740.7
7.5°	713.3	714.8	718.3	719.6	722.0	723.3	723.1	723.9	725.7	723.7
10°	709.3	711.1	713.7	711.6	706.2	698.4	691.2	687.6	688.7	687.3
12.5°	705.3	707.7	705.6	696.1	680.9	670.9	665.5	666.1	668.6	669.1
15°	703.1	703.9	695.3	677.5	662.1	660.6	663.4	662.9	663.0	663.0
17.5°	703.1	700.7	684.7	666.9	660.3	657.6	648.8	637.5	632.8	631.0
20°	706.7	700.7	681.3	669.4	655.1	633.0	609.5	588.7	579.6	577.0
22.5°	717.9	707.7	690.9	670.7	629.8	592.8	555.5	530.9	514.2	511.3
25°	740.7	729.2	710.2	655.5	589.6	536.8	494.3	466.8	450.2	448.0
27.5°	780.2	772.7	720.5	621.7	536.3	479.8	440.4	419.1	406.9	406.0
30°	839.8	836.1	715.4	572.2	470.6	424.4	405.5	393.1	383.9	383.7
32.5°	935.1	905.0	698.4	511.7	410.6	385.2	377.4	369.9	362.6	362.6
35°	1057.7	960.6	666.4	446.7	374.1	363.3	353.6	341.7	332.4	331.7
37.5°	1201.8	995.1	608.6	394.5	356.9	348.6	334.3	316.8	300.2	297.2
40°	1347.2	1005.5	527.5	362.5	346.0	334.0	316.6	295.8	279.8	279.0
42.5°	1480.6	985.7	441.3	340.3	335.2	319.1	300.8	282.3	269.8	269.4
45°	1592.5	934.2	369.1	319.3	323.7	305.7	289.3	274.3	264.6	262.6
47.5°	1697.8	861.7	318.2	297.2	312.3	298.1	284.4	270.3	260.9	259.4
50°	1820.1	783.3	282.6	275.8	302.2	295.5	288.4	273.8	258.0	256.2
52.5°	1968.1	715.7	254.8	256.8	294.5	299.0	298.6	283.5	255.9	253.6
55°	2133.5	640.5	233.9	241.4	291.2	305.3	301.3	292.7	257.6	254.2
57.5°	2296.2	552.6	219.2	229.5	286.6	304.7	289.0	276.6	261.6	256.8
60°	2418.1	434.7	208.0	219.2	276.6	295.3	275.5	259.2	260.9	257.2
62.5°	2426.1	336.1	194.6	210.4	261.3	285.8	266.5	251.3	264.6	261.0
65°	2283.5	254.0	181.6	199.8	245.1	279.8	258.0	247.0	272.4	268.7
67.5°	1922.6	204.4	170.8	188.9	228.7	267.2	250.2	243.0	279.3	272.5
70°	1388.1	174.2	160.1	175.6	214.1	252.9	243.4	235.9	260.6	250.2
72.5°	854.6	150.9	148.1	158.1	202.8	238.0	233.0	222.4	234.7	226.5
75°	426.6	130.9	134.6	140.9	187.0	221.0	215.9	205.2	206.9	205.2
77.5°	204.4	111.8	118.8	123.6	166.7	201.7	196.3	185.4	183.3	183.7
80°	129.4	93.6	100.2	103.6	148.8	179.3	173.9	163.0	185.9	172.5
82.5°	80.8	76.0	77.8	84.1	129.6	156.0	148.8	139.1	167.5	132.6
85°	44.7	53.1	55.3	60.8	99.8	130.6	123.3	111.0	99.5	97.8
87.5°	26.7	31.6	32.3	36.4	67.2	94.4	83.5	79.2	65.8	65.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)