

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: P382765

Luminaire Tested: **GLEON-SA1B-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5535.3 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

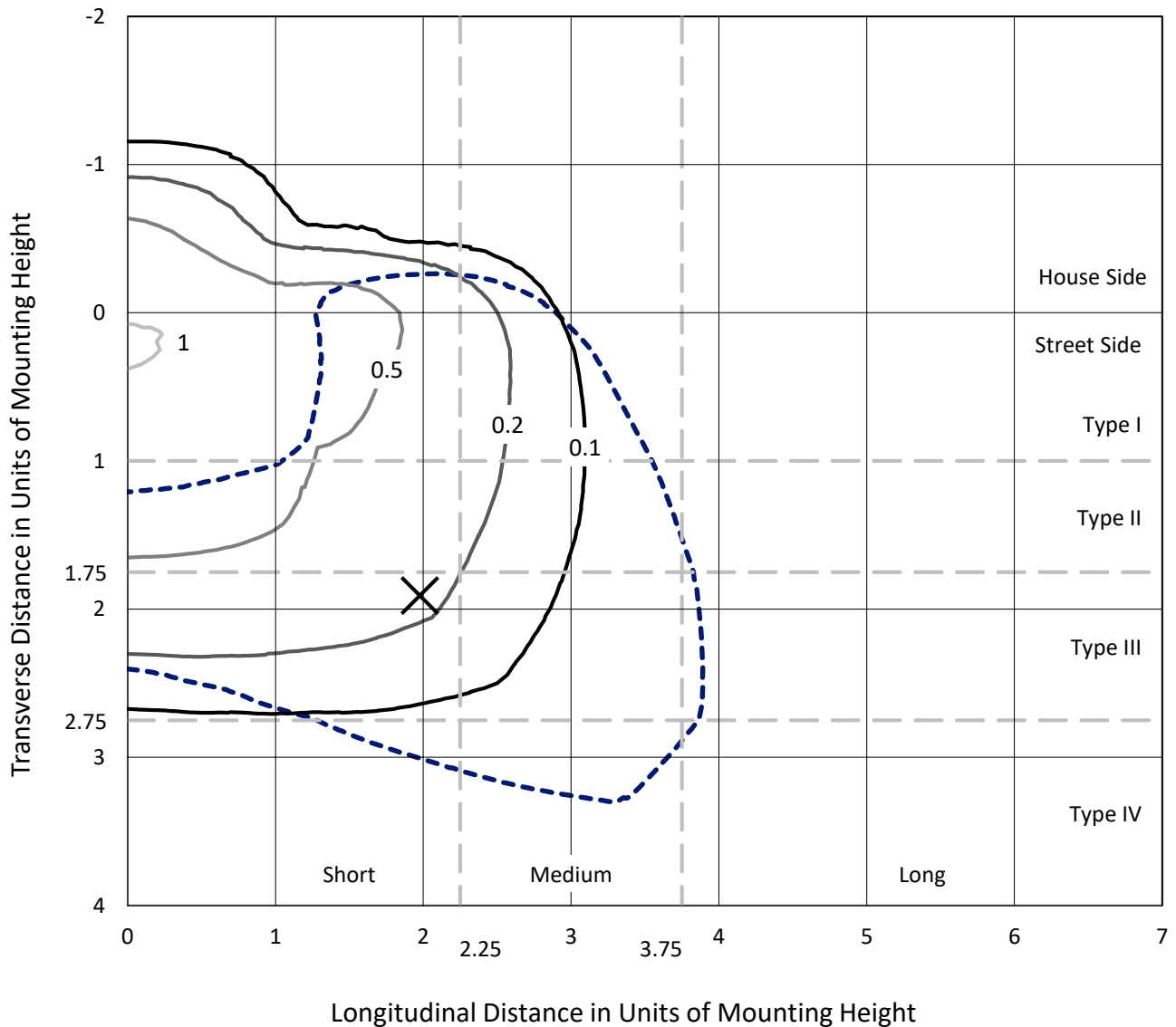
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

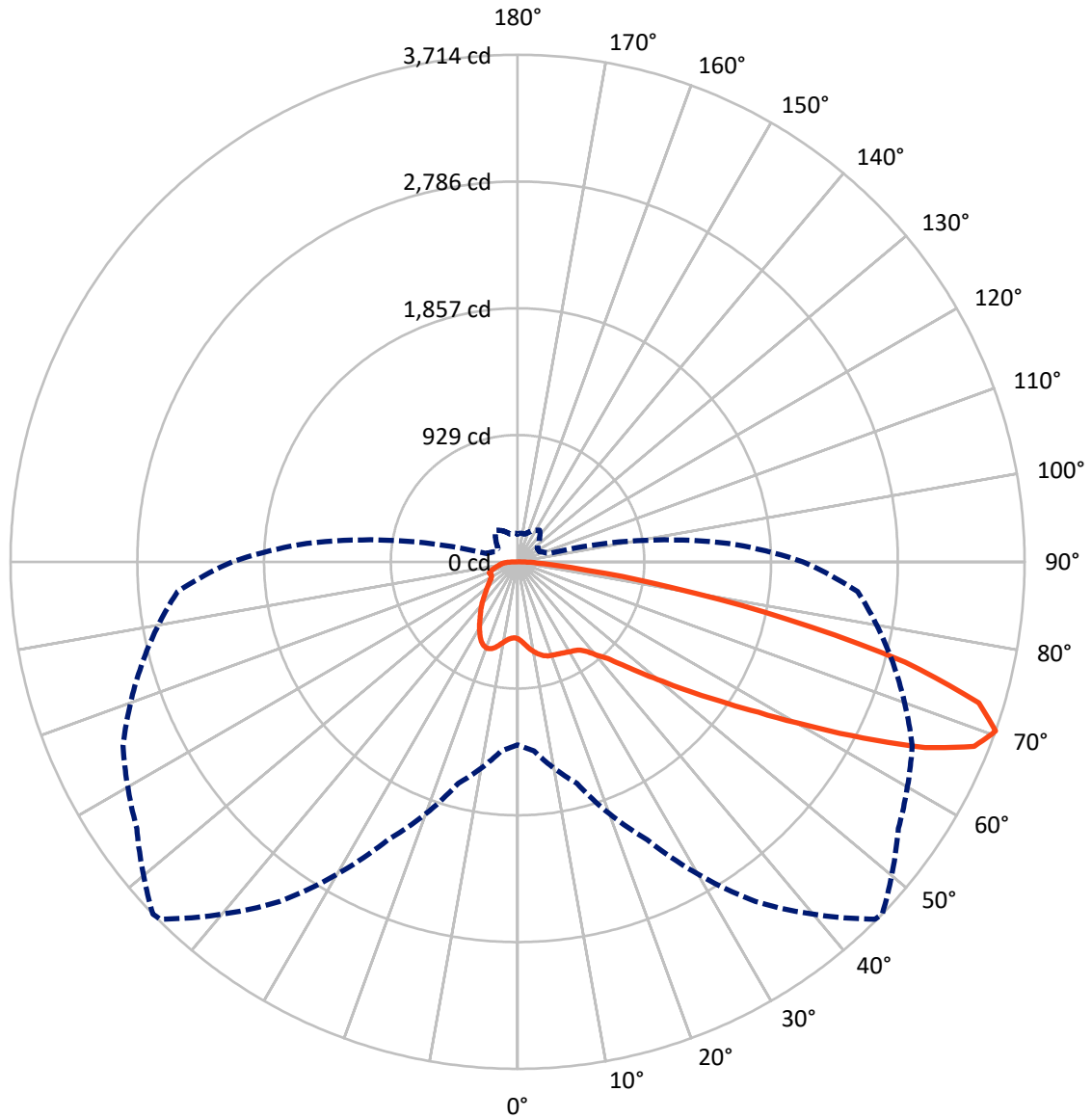
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1268.7	0.0	1268.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4266.6	0.0	4266.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	5535.3	0.0	5535.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	1.0
10°-20°	191.5	3.5
20°-30°	319.4	5.8
30°-40°	453.2	8.2
40°-50°	666.6	12.0
50°-60°	1128.9	20.4
60°-70°	1602.5	29.0
70°-80°	973.5	17.6
80°-90°	142.1	2.6
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°	5535.3	100.0
0°-180°	5535.3	100.0

Coefficient of Utilization

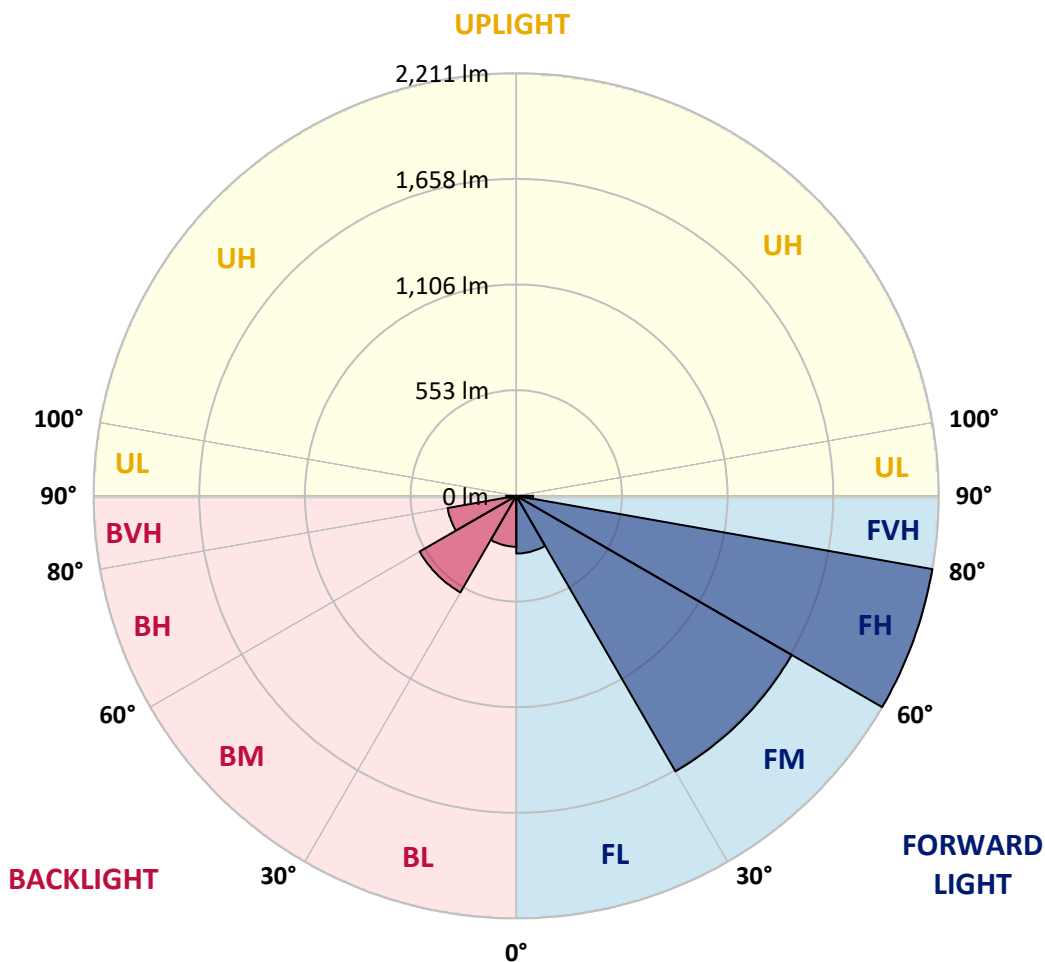


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	302.0	5.5			
FM (30°-60°)	1664.8	30.1			
FH (60°-80°)	2211.3	39.9			G2/5000
FVH (80°-90°)	88.5	1.6			G1/100
BL (0°-30°)	266.4	4.8	B1/500		
BM (30°-60°)	584.0	10.6	B1/1000		
BH (60°-80°)	364.7	6.6	B1/500		G1/500
BVH (80°-90°)	53.6	1.0			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°	46°	55°	65°	75°	85°
0°	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
2.5°	592.2	592.6	593.3	591.4	586.1	584.5	584.0	578.5	575.0	569.6	565.1
5°	639.5	639.9	638.8	633.5	621.7	613.0	612.2	599.7	588.4	576.3	567.1
7.5°	689.0	689.5	685.9	675.9	659.4	644.3	643.3	626.3	609.0	590.6	577.0
10°	732.8	730.4	724.6	710.6	691.0	672.5	671.7	653.9	634.0	611.8	593.7
12.5°	761.9	760.0	752.4	735.4	713.9	696.9	695.4	678.9	659.6	635.3	613.6
15°	778.0	779.3	769.1	749.8	728.9	714.5	713.2	701.5	684.2	659.8	634.8
17.5°	780.1	781.2	771.3	752.2	735.2	725.3	724.7	717.0	704.5	681.0	654.9
20°	768.0	768.7	760.6	744.9	733.7	730.6	730.4	727.1	717.8	696.9	671.6
22.5°	750.4	750.9	745.1	733.7	729.9	734.6	735.9	734.6	728.0	708.4	684.6
25°	746.0	745.6	739.6	728.0	731.2	741.2	742.9	743.5	739.0	721.9	701.3
27.5°	767.0	765.6	754.1	735.5	737.6	749.8	752.0	757.5	754.6	739.7	720.2
30°	827.8	825.5	801.9	764.3	754.1	760.3	763.2	772.0	772.5	760.0	745.4
32.5°	930.5	927.6	885.2	818.2	781.9	771.1	773.8	786.9	793.9	784.3	768.5
35°	1060.3	1057.0	1001.3	909.7	828.6	791.8	793.7	804.1	818.2	804.5	783.7
37.5°	1195.5	1187.7	1134.2	1017.2	902.7	836.0	836.0	837.3	843.9	815.5	801.5
40°	1330.0	1322.2	1273.7	1143.8	998.5	905.5	901.1	871.7	866.4	842.0	837.3
42.5°	1455.0	1452.7	1424.1	1286.8	1111.0	973.8	967.8	917.9	919.2	904.0	904.2
45°	1588.0	1588.0	1564.7	1431.1	1242.1	1083.8	1077.7	1004.4	1015.8	1008.7	1025.5
47.5°	1696.5	1700.0	1696.7	1581.6	1394.6	1223.3	1212.3	1124.1	1155.9	1180.0	1229.0
50°	1807.4	1812.7	1813.3	1746.6	1578.9	1389.3	1376.7	1283.0	1354.0	1423.0	1519.4
52.5°	1968.2	1980.1	1932.6	1911.2	1804.7	1586.3	1573.9	1487.4	1606.0	1702.8	1869.0
55°	2117.2	2106.9	2073.0	2086.2	2046.4	1810.6	1801.3	1725.3	1886.8	2012.5	2228.3
57.5°	2198.0	2197.2	2231.3	2288.2	2307.1	2087.1	2079.4	2005.5	2203.3	2297.8	2565.7
60°	2292.6	2294.0	2378.5	2507.4	2585.5	2431.5	2428.1	2372.1	2510.7	2564.1	2830.3
62.5°	2306.0	2329.8	2475.3	2697.3	2846.2	2833.9	2841.5	2702.2	2785.8	2776.7	3027.8
65°	2153.5	2184.9	2448.2	2754.7	3105.3	3273.9	3280.9	3034.3	3002.7	2958.3	3098.5
67.5°	1840.9	1887.5	2173.5	2629.9	3190.7	3599.2	3609.0	3291.7	3182.6	3019.9	2928.4
70°	1339.7	1391.4	1679.3	2246.1	3038.4	3703.2	3714.4	3405.6	3189.4	2844.7	2499.9
72.5°	809.2	849.8	1087.1	1653.5	2564.6	3513.7	3533.6	3261.3	2911.9	2409.5	1846.0
75°	355.4	381.9	525.7	952.9	1836.0	2907.2	2932.0	2791.5	2365.9	1751.1	1091.1
77.5°	151.4	158.9	215.6	413.9	1037.9	1986.5	2020.6	2039.6	1605.2	952.9	461.1
80°	94.4	97.3	122.0	187.3	485.7	1115.7	1152.5	1200.0	797.1	350.3	161.0
82.5°	57.4	60.8	81.0	113.3	252.9	505.7	523.4	556.9	309.4	151.4	83.4
85°	34.5	37.0	49.7	71.6	143.9	198.9	198.7	219.8	145.7	97.3	44.0
87.5°	16.5	18.4	26.5	37.2	72.6	74.6	69.9	79.2	88.5	63.8	22.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
2.5°	563.6	562.8	560.3	558.5	558.1	556.9	555.9	556.5	557.3	557.5	557.5
5°	563.4	561.3	558.1	556.7	558.5	560.7	563.6	567.3	569.6	571.3	572.4
7.5°	572.4	568.5	564.9	564.1	567.5	573.6	580.1	588.0	593.5	597.3	598.1
10°	587.6	582.7	579.0	579.9	585.9	594.6	603.7	614.0	622.3	627.4	627.8
12.5°	605.0	600.3	596.9	600.1	610.2	620.8	630.2	639.1	646.7	651.8	651.8
15°	625.2	621.7	617.7	625.2	638.8	648.3	652.2	656.6	660.7	664.6	663.7
17.5°	644.4	641.2	639.1	647.9	662.1	666.4	663.7	660.6	660.6	662.6	663.0
20°	661.1	658.2	659.6	668.1	675.5	671.0	661.1	650.9	646.7	647.9	649.0
22.5°	675.7	674.3	678.4	682.4	677.0	661.1	643.0	629.1	624.0	623.6	624.0
25°	692.8	692.5	697.4	690.3	666.8	637.5	613.0	599.5	596.7	599.0	602.8
27.5°	713.9	716.1	718.5	692.1	645.9	601.6	576.8	567.5	570.4	575.9	579.4
30°	741.0	746.7	741.4	687.5	616.0	560.7	537.0	534.4	542.2	549.9	553.7
32.5°	767.4	776.3	763.4	675.1	577.4	517.3	498.9	498.2	507.7	515.2	520.5
35°	788.6	806.3	779.9	650.7	532.7	477.3	463.9	458.8	462.2	471.1	477.1
37.5°	816.2	845.7	791.3	613.3	484.2	444.4	428.7	417.0	413.9	417.5	420.5
40°	866.8	905.7	796.6	561.3	436.8	411.5	395.5	378.3	366.4	357.6	357.8
42.5°	949.4	983.9	793.1	498.0	393.1	379.2	361.3	341.3	322.0	302.3	300.8
45°	1083.6	1100.3	782.9	430.9	354.6	345.5	328.6	308.8	283.0	260.6	258.6
47.5°	1298.2	1261.2	767.0	372.4	320.7	316.9	301.4	278.4	251.1	233.2	231.7
50°	1590.8	1493.6	759.2	325.9	290.7	291.9	279.2	255.0	229.3	215.9	214.4
52.5°	1940.9	1764.4	774.2	289.8	266.7	270.7	261.2	238.5	216.9	206.5	204.9
55°	2304.0	2044.7	790.3	263.7	244.0	251.8	248.5	229.8	210.3	200.6	199.3
57.5°	2614.9	2254.1	758.1	242.5	223.8	235.9	238.7	224.3	206.9	198.1	196.6
60°	2810.6	2338.4	673.6	222.5	207.6	223.1	233.0	222.7	208.2	207.5	206.2
62.5°	2903.4	2330.9	546.9	206.9	197.6	217.6	237.2	231.3	223.3	230.2	230.7
65°	2861.7	2219.6	407.3	196.5	190.4	219.8	249.7	247.4	227.7	234.5	235.5
67.5°	2587.5	1953.8	301.5	187.3	182.4	225.6	272.4	252.7	219.2	224.1	221.1
70°	2091.3	1549.0	232.6	177.1	174.3	224.9	282.6	249.5	209.9	211.0	202.9
72.5°	1442.1	1056.3	189.2	167.7	162.6	204.9	275.5	241.6	202.1	193.4	182.6
75°	784.3	566.9	160.8	157.8	141.9	180.0	262.1	235.9	195.2	183.5	177.5
77.5°	308.6	235.3	139.6	144.4	124.1	158.9	247.4	225.1	185.5	170.3	167.3
80°	125.9	120.1	115.7	124.8	106.7	139.1	229.6	212.4	173.9	158.0	151.9
82.5°	71.4	74.6	90.0	98.5	86.5	128.1	221.1	202.1	160.0	141.5	134.3
85°	36.5	43.8	62.7	70.6	63.6	108.9	203.6	176.9	128.5	108.3	108.9
87.5°	17.6	24.4	39.6	44.3	41.3	78.8	152.1	128.3	100.0	79.2	76.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)