

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: P382737

Luminaire Tested: **GLEON-SA1A-735-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382737  
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-SA1A-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4513.3 lumens  
Efficiency: N/A  
Efficacy: 132.7 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

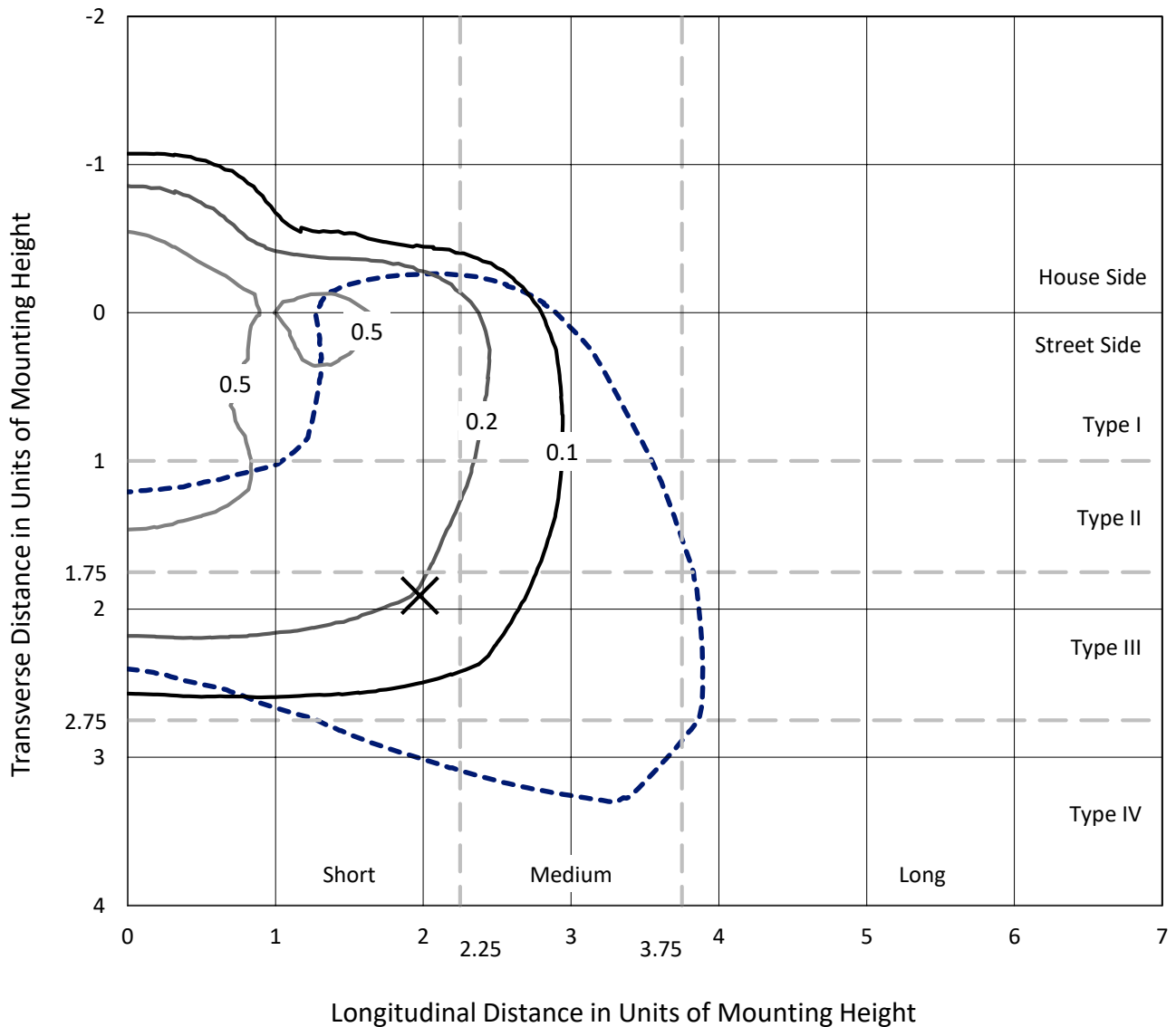
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

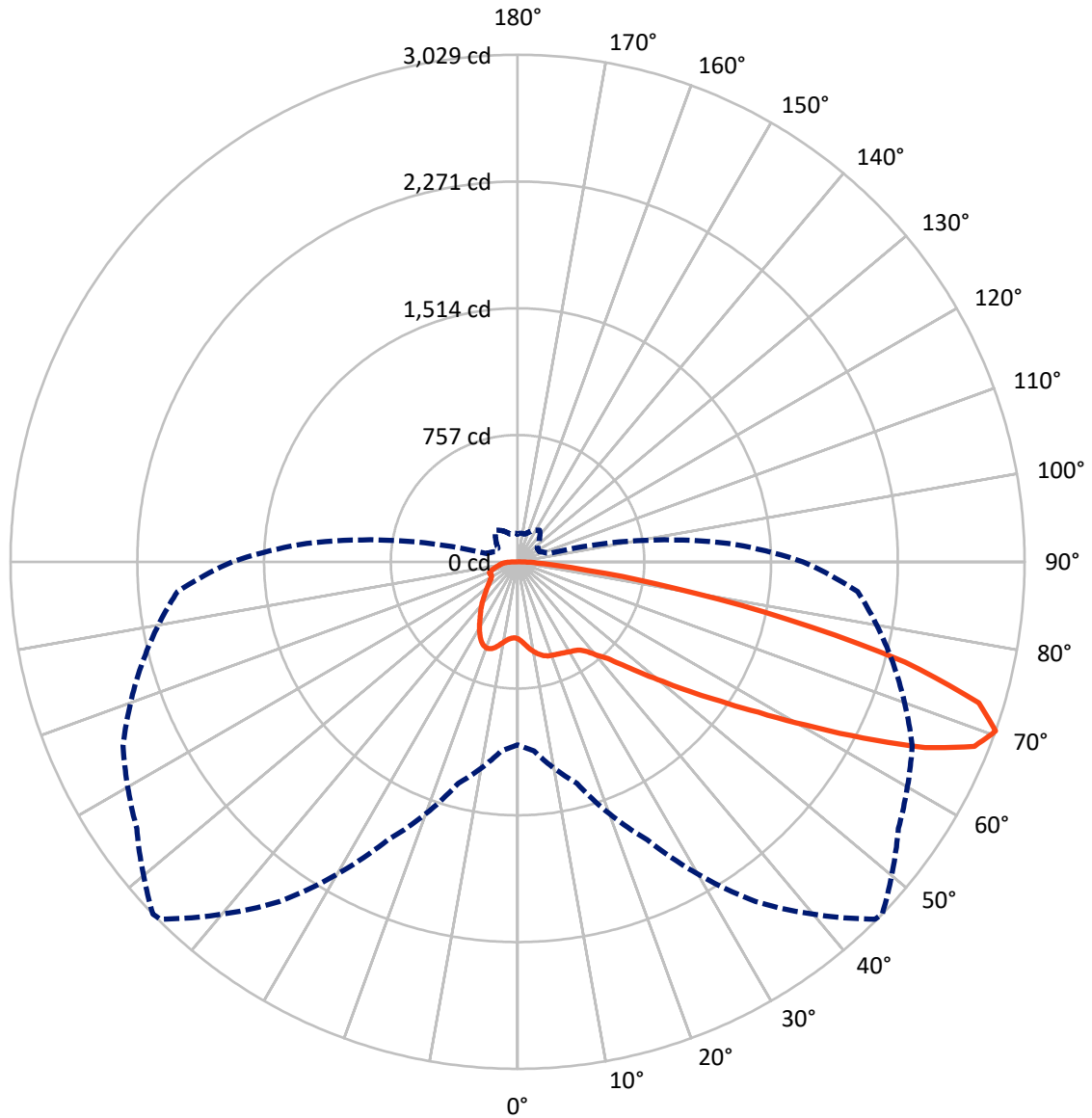
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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
<b>House Side</b>	Lumens	1034.4	0.0	1034.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3478.9	0.0	3478.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	4513.3	0.0	4513.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.9	1.0
10°-20°	156.2	3.5
20°-30°	260.4	5.8
30°-40°	369.5	8.2
40°-50°	543.6	12.0
50°-60°	920.5	20.4
60°-70°	1306.6	29.0
70°-80°	793.8	17.6
80°-90°	115.8	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°	4513.3	100.0
0°-180°	4513.3	100.0

**Coefficient of Utilization**

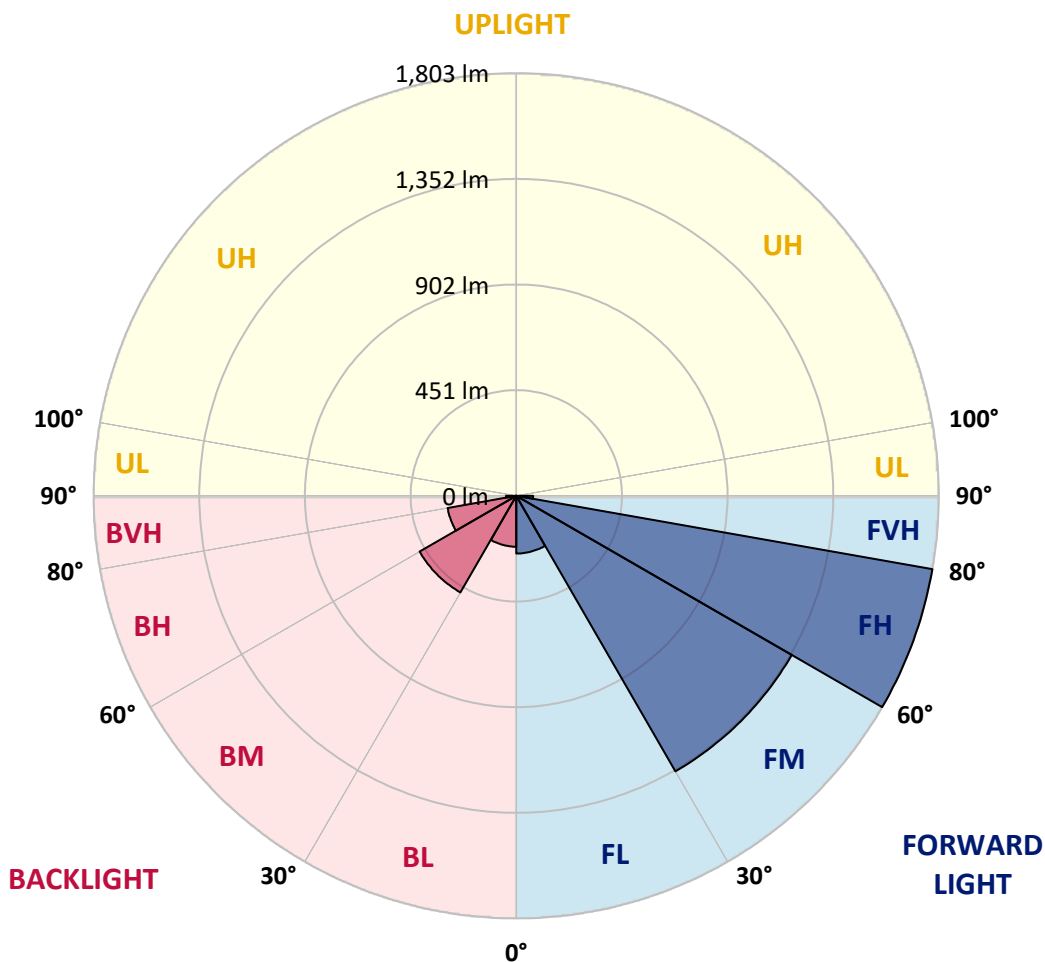


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	246.3	5.5			
FM (30°-60°)	1357.4	30.1			
FH (60°-80°)	1803.1	39.9			G2/5000
FVH (80°-90°)	72.2	1.6			G1/100
BL (0°-30°)	217.2	4.8	B1/500		
BM (30°-60°)	476.2	10.6	B1/1000		
BH (60°-80°)	297.4	6.6	B1/500		G1/500
BVH (80°-90°)	43.7	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°	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8
2.5°	482.8	483.1	483.8	482.3	477.9	476.7	476.2	471.7	468.8	464.5	460.7
5°	521.5	521.8	520.8	516.5	506.9	499.9	499.2	489.0	479.7	469.9	462.4
7.5°	561.7	562.2	559.3	551.1	537.7	525.3	524.6	510.7	496.6	481.6	470.5
10°	597.4	595.6	590.8	579.3	563.5	548.3	547.7	533.2	517.0	498.9	484.0
12.5°	621.2	619.7	613.5	599.6	582.1	568.2	567.0	553.6	537.8	518.0	500.3
15°	634.4	635.4	627.1	611.4	594.3	582.6	581.6	572.0	557.9	538.0	517.6
17.5°	636.1	637.0	629.0	613.3	599.5	591.4	591.0	584.6	574.4	555.3	534.0
20°	626.2	626.7	620.1	607.4	598.2	595.7	595.6	592.8	585.2	568.2	547.6
22.5°	611.8	612.3	607.5	598.2	595.2	599.0	600.1	599.0	593.6	577.7	558.2
25°	608.3	607.9	603.0	593.6	596.2	604.4	605.8	606.3	602.5	588.6	571.8
27.5°	625.4	624.3	614.9	599.7	601.5	611.4	613.2	617.7	615.4	603.2	587.2
30°	675.0	673.1	653.9	623.2	614.9	620.0	622.3	629.4	629.9	619.7	607.8
32.5°	758.7	756.4	721.8	667.1	637.6	628.8	630.9	641.6	647.3	639.4	626.7
35°	864.5	861.9	816.5	741.7	675.6	645.7	647.1	655.7	667.1	656.0	638.9
37.5°	974.8	968.4	924.7	829.4	736.0	681.6	681.6	682.7	688.1	664.9	653.5
40°	1084.4	1078.1	1038.6	932.6	814.2	738.3	734.7	710.8	706.5	686.6	682.7
42.5°	1186.4	1184.6	1161.2	1049.2	905.9	794.1	789.1	748.5	749.4	737.0	737.2
45°	1294.9	1294.9	1275.8	1166.9	1012.8	883.7	878.7	818.9	828.2	822.5	836.3
47.5°	1383.3	1386.1	1383.4	1289.5	1137.1	997.5	988.6	916.5	942.5	962.1	1002.2
50°	1473.7	1478.0	1478.5	1424.1	1287.4	1132.8	1122.6	1046.1	1104.1	1160.3	1238.9
52.5°	1604.8	1614.6	1575.8	1558.3	1471.6	1293.5	1283.4	1212.8	1309.5	1388.4	1523.9
55°	1726.3	1717.9	1690.2	1701.0	1668.6	1476.3	1468.8	1406.8	1538.4	1640.9	1816.9
57.5°	1792.2	1791.6	1819.4	1865.7	1881.2	1701.8	1695.5	1635.2	1796.5	1873.6	2092.0
60°	1869.4	1870.5	1939.4	2044.6	2108.2	1982.6	1979.8	1934.1	2047.2	2090.8	2307.7
62.5°	1880.2	1899.7	2018.3	2199.3	2320.8	2310.7	2316.9	2203.4	2271.5	2264.0	2468.9
65°	1755.9	1781.5	1996.2	2246.1	2532.0	2669.5	2675.2	2474.1	2448.3	2412.1	2526.5
67.5°	1501.0	1539.0	1772.3	2144.3	2601.7	2934.7	2942.8	2684.0	2595.0	2462.4	2387.7
70°	1092.3	1134.5	1369.3	1831.4	2477.5	3019.5	3028.6	2776.9	2600.6	2319.5	2038.4
72.5°	659.8	692.9	886.5	1348.2	2091.0	2865.1	2881.3	2659.2	2374.3	1964.7	1505.2
75°	289.8	311.4	428.6	776.9	1497.0	2370.5	2390.7	2276.1	1929.1	1427.8	889.7
77.5°	123.4	129.6	175.8	337.5	846.3	1619.8	1647.6	1663.1	1308.9	776.9	376.0
80°	76.9	79.4	99.5	152.8	396.0	909.7	939.7	978.5	649.9	285.6	131.3
82.5°	46.8	49.6	66.1	92.4	206.2	412.4	426.7	454.1	252.3	123.4	68.0
85°	28.1	30.1	40.4	58.4	117.4	162.2	162.0	179.1	118.8	79.4	35.9
87.5°	13.4	15.0	21.6	30.3	59.2	60.8	57.0	64.6	72.1	52.1	18.1
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°	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8
2.5°	459.5	458.9	456.9	455.3	455.1	454.1	453.3	453.8	454.4	454.6	454.6
5°	459.3	457.7	455.1	453.9	455.3	457.2	459.5	462.6	464.5	465.9	466.8
7.5°	466.8	463.5	460.6	460.0	462.8	467.7	472.9	479.5	483.9	487.0	487.7
10°	479.1	475.1	472.2	472.8	477.7	484.9	492.2	500.6	507.4	511.6	511.9
12.5°	493.3	489.4	486.7	489.3	497.5	506.2	513.8	521.1	527.3	531.4	531.4
15°	509.7	506.9	503.7	509.7	520.8	528.6	531.8	535.4	538.7	541.9	541.2
17.5°	525.5	522.9	521.1	528.3	539.8	543.4	541.2	538.6	538.6	540.3	540.6
20°	539.1	536.8	537.8	544.8	550.8	547.1	539.1	530.7	527.3	528.3	529.2
22.5°	550.9	549.9	553.2	556.3	552.0	539.1	524.3	512.9	508.8	508.4	508.8
25°	564.9	564.7	568.7	562.8	543.7	519.7	499.9	488.9	486.5	488.4	491.5
27.5°	582.1	583.9	585.9	564.4	526.7	490.6	470.3	462.8	465.0	469.6	472.5
30°	604.2	608.9	604.6	560.5	502.3	457.2	437.9	435.7	442.0	448.4	451.5
32.5°	625.7	633.0	622.5	550.5	470.8	421.8	406.8	406.2	414.0	420.1	424.4
35°	643.0	657.4	635.9	530.6	434.4	389.2	378.3	374.1	376.9	384.2	389.1
37.5°	665.6	689.5	645.2	500.1	394.8	362.4	349.5	339.9	337.5	340.4	342.9
40°	706.8	738.4	649.5	457.7	356.2	335.5	322.5	308.4	298.7	291.6	291.8
42.5°	774.1	802.2	646.7	406.1	320.5	309.2	294.6	278.3	262.6	246.5	245.3
45°	883.5	897.1	638.4	351.4	289.2	281.7	268.0	251.8	230.7	212.6	210.8
47.5°	1058.5	1028.4	625.4	303.7	261.5	258.4	245.7	227.0	204.8	190.1	188.9
50°	1297.2	1217.9	619.1	265.7	237.1	238.0	227.7	207.9	186.9	176.1	174.9
52.5°	1582.6	1438.6	631.3	236.3	217.5	220.7	213.0	194.5	176.9	168.3	167.1
55°	1878.7	1667.2	644.4	215.0	199.0	205.3	202.6	187.3	171.4	163.6	162.5
57.5°	2132.1	1837.9	618.2	197.7	182.4	192.3	194.6	182.9	168.7	161.5	160.3
60°	2291.7	1906.6	549.2	181.5	169.3	181.9	189.9	181.7	169.7	169.2	168.2
62.5°	2367.3	1900.6	445.9	168.7	161.1	177.5	193.4	188.6	182.1	187.7	188.2
65°	2333.4	1809.8	332.1	160.1	155.2	179.1	203.5	201.7	185.7	191.2	192.0
67.5°	2109.8	1593.0	245.9	152.8	148.8	184.0	222.1	206.1	178.7	182.8	180.3
70°	1705.2	1263.0	189.7	144.4	142.1	183.3	230.5	203.4	171.1	172.1	165.4
72.5°	1175.9	861.2	154.3	136.7	132.6	167.1	224.6	196.9	164.8	157.7	148.9
75°	639.4	462.3	131.2	128.6	115.7	146.7	213.8	192.3	159.1	149.7	144.8
77.5°	251.6	191.8	113.8	117.7	101.2	129.6	201.7	183.5	151.2	138.9	136.4
80°	102.7	97.9	94.4	101.8	86.9	113.4	187.2	173.2	141.8	128.8	123.9
82.5°	58.2	60.8	73.4	80.3	70.6	104.4	180.3	164.8	130.5	115.4	109.5
85°	29.8	35.7	51.1	57.6	51.9	88.8	166.0	144.3	104.7	88.3	88.8
87.5°	14.3	19.9	32.3	36.1	33.6	64.3	124.0	104.6	81.5	64.6	62.6
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)