

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: P191259

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191259  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6645.1 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

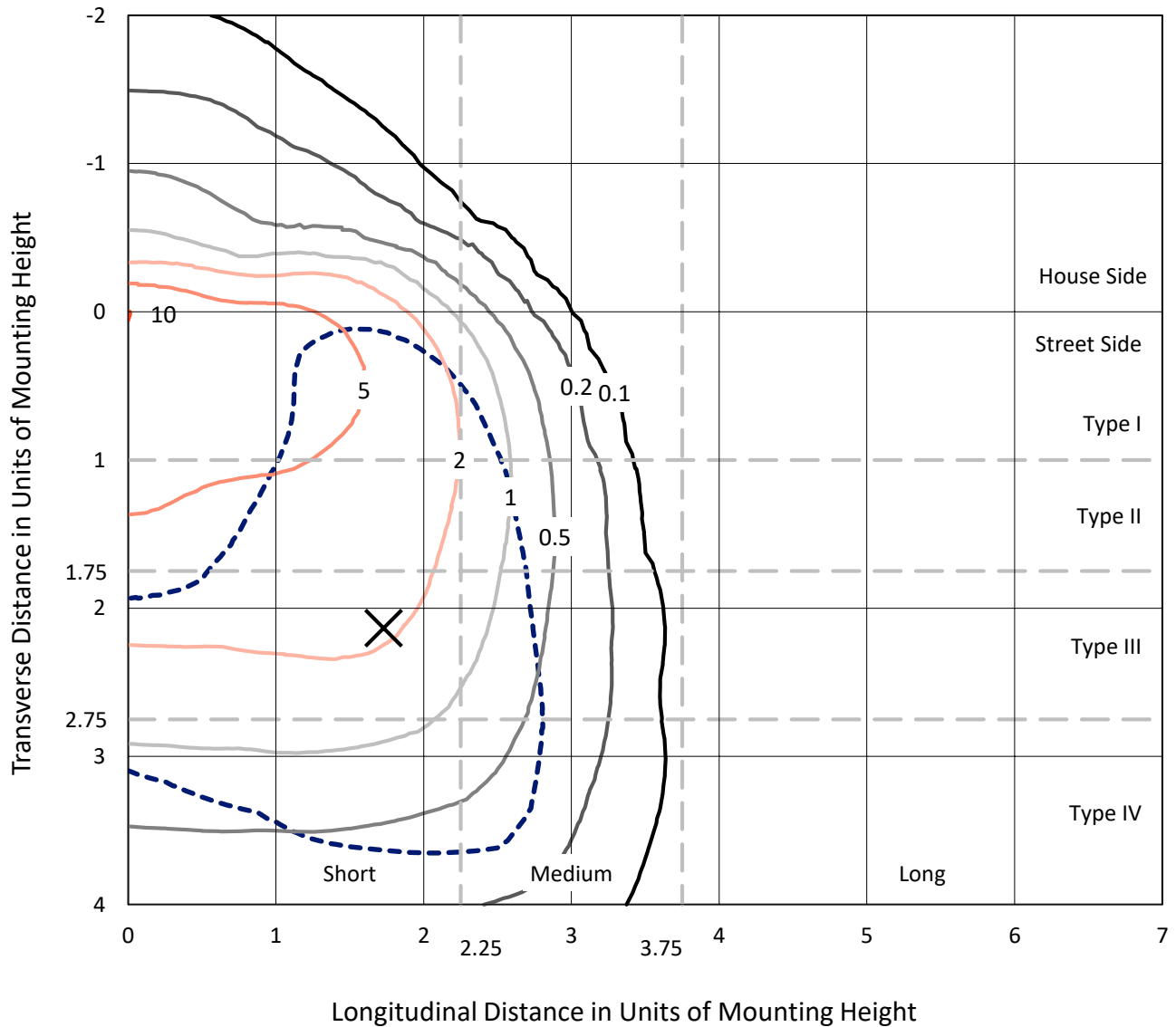
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

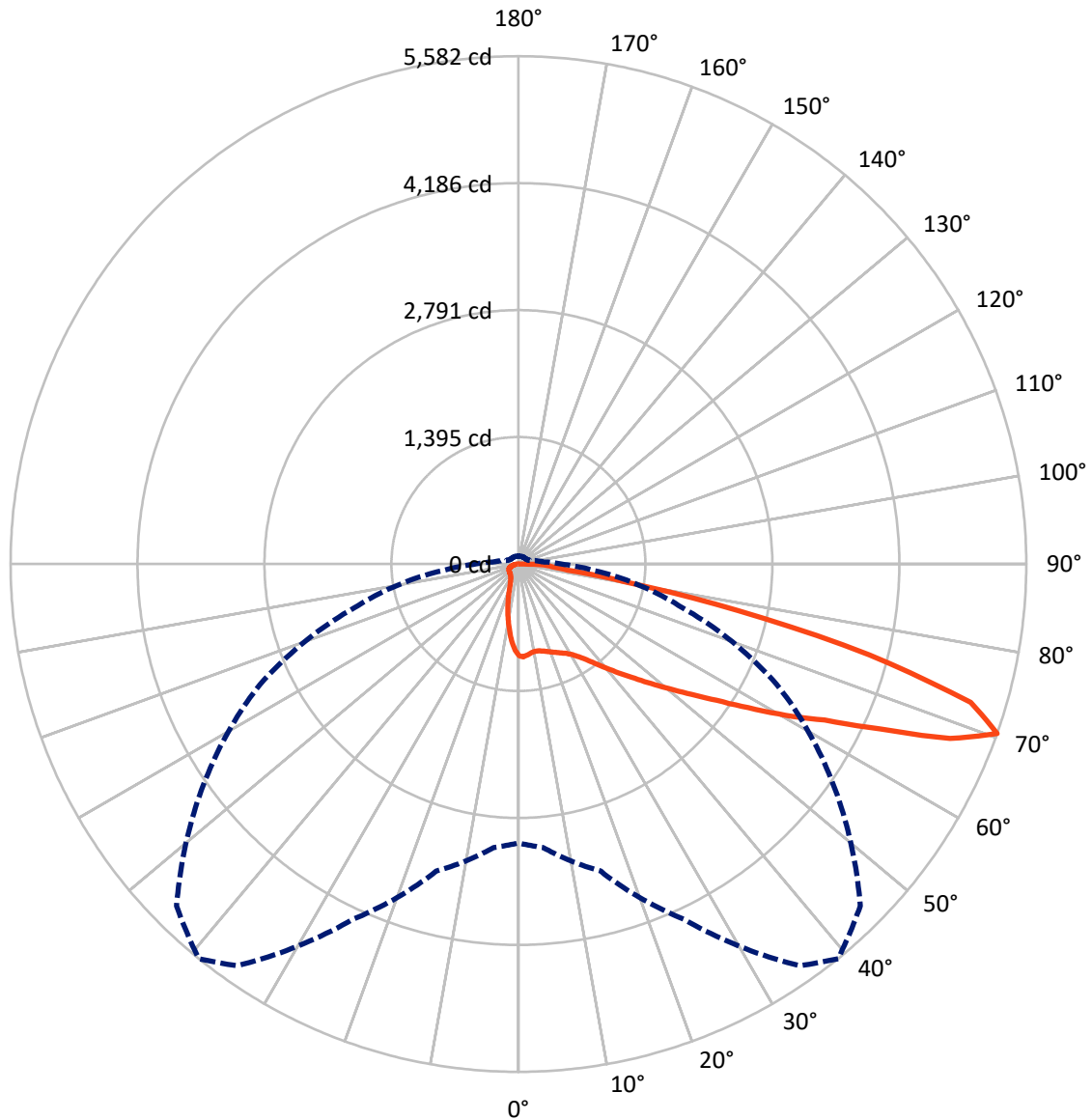
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	755.8	0.0	755.8
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	5889.3	0.0	5889.3
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	6645.1	0.0	6645.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.6	1.3
10°-20°	216.4	3.3
20°-30°	337.0	5.1
30°-40°	524.9	7.9
40°-50°	881.2	13.3
50°-60°	1399.9	21.1
60°-70°	1867.3	28.1
70°-80°	1127.6	17.0
80°-90°	204.1	3.1
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°	6645.1	100.0
0°-180°	6645.1	100.0



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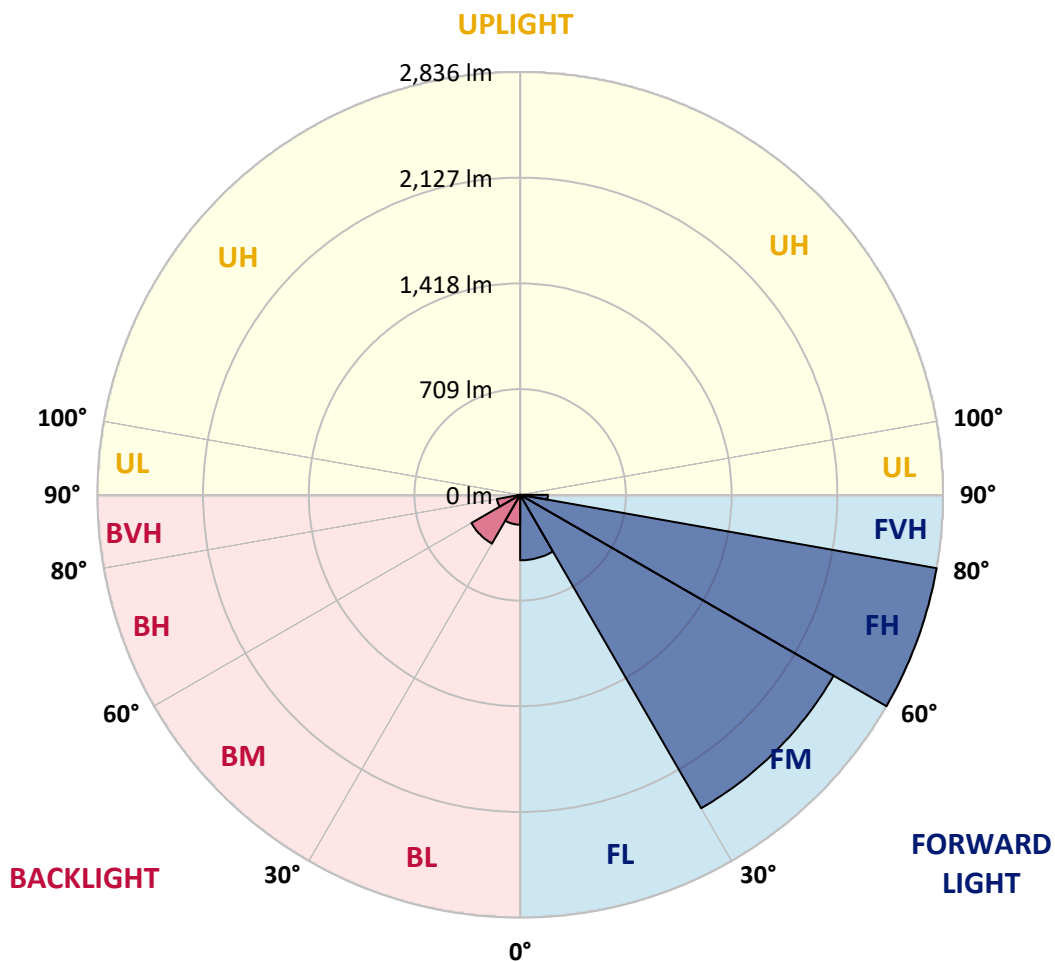
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	439.4	6.6			
FM	(30°-60°)	2427.9	36.5			
FH	(60°-80°)	2836.3	42.7			G2/5000
FVH	(80°-90°)	185.7	2.8			G2/225
BL	(0°-30°)	200.5	3.0	B1/500		
BM	(30°-60°)	378.2	5.7	B1/1000		
BH	(60°-80°)	158.7	2.4	B1/500		G1/500
BVH	(80°-90°)	18.4	0.3			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°	39°	45°	55°	65°	75°	85°
0°	1008.8	1008.8	1008.8	1008.8	1008.8	1008.8	1008.8	1008.8	1008.8	1008.8	1008.8
2.5°	1028.4	1028.1	1025.4	1023.4	1021.6	1021.0	1022.3	1017.3	1012.9	1007.5	1001.8
5°	1020.7	1020.3	1015.9	1011.9	1007.8	1006.5	1006.2	997.0	991.5	983.5	972.7
7.5°	1012.2	1010.5	1004.7	998.0	990.9	987.6	984.2	972.3	966.3	958.2	945.6
10°	1003.4	1001.4	995.9	989.2	982.4	977.4	971.7	960.1	953.8	947.7	933.1
12.5°	994.3	992.6	991.2	988.2	983.5	979.1	974.7	964.9	958.2	951.0	934.2
15°	993.0	992.3	995.3	997.4	994.6	992.0	987.2	978.8	971.7	964.5	942.6
17.5°	1003.7	1003.4	1011.2	1016.6	1015.3	1010.5	1004.1	994.6	988.9	982.9	955.4
20°	1027.5	1029.1	1038.6	1045.7	1038.9	1032.2	1021.6	1008.5	1005.5	1002.7	968.6
22.5°	1072.1	1073.7	1080.4	1083.2	1065.6	1055.8	1041.3	1024.4	1022.3	1024.4	984.5
25°	1141.6	1139.9	1138.9	1128.7	1096.7	1081.5	1062.8	1045.4	1046.4	1055.5	1006.8
27.5°	1233.9	1224.7	1210.6	1180.1	1129.1	1112.3	1089.5	1073.4	1079.8	1097.3	1040.2
30°	1329.4	1319.3	1286.6	1236.8	1171.7	1153.1	1127.7	1109.5	1126.4	1154.1	1084.8
32.5°	1418.0	1416.6	1368.6	1304.8	1230.5	1214.2	1188.9	1168.3	1195.6	1237.9	1151.7
35°	1514.6	1517.6	1460.2	1383.5	1309.9	1293.0	1274.7	1259.2	1295.7	1353.8	1248.7
37.5°	1618.0	1624.0	1556.1	1469.7	1400.4	1393.3	1382.5	1375.8	1432.1	1512.5	1384.2
40°	1756.2	1750.1	1655.9	1567.0	1511.5	1511.2	1507.8	1515.9	1609.8	1720.0	1558.2
42.5°	1904.1	1886.2	1761.5	1671.4	1633.6	1645.0	1651.8	1684.9	1823.7	1972.0	1770.3
45°	2063.6	2023.4	1871.4	1781.9	1769.0	1793.3	1816.2	1888.3	2075.5	2258.9	2002.8
47.5°	2191.0	2152.1	1984.9	1897.7	1925.8	1962.6	2006.8	2120.7	2357.2	2555.2	2232.2
50°	2291.3	2265.9	2099.4	2032.8	2098.4	2155.2	2227.5	2383.9	2650.5	2843.7	2444.8
52.5°	2388.6	2369.7	2215.0	2171.4	2301.1	2379.5	2477.8	2666.3	2951.1	3127.5	2623.5
55°	2476.5	2463.0	2339.3	2344.0	2539.7	2641.7	2765.3	2987.9	3278.9	3380.5	2774.8
57.5°	2575.5	2558.2	2481.2	2560.5	2846.1	2978.5	3139.3	3349.4	3586.3	3605.6	2890.0
60°	2675.1	2660.3	2638.6	2810.6	3235.3	3374.5	3526.8	3699.8	3898.2	3780.2	2883.2
62.5°	2761.6	2763.3	2801.5	3073.1	3616.3	3777.6	3963.3	4134.3	4180.3	3810.6	2670.0
65°	2908.2	2934.9	3048.8	3444.8	4152.9	4368.4	4596.5	4569.1	4258.3	3526.5	2212.9
67.5°	3082.6	3129.5	3360.3	3940.0	4831.0	5117.1	5205.3	4667.4	3945.8	2866.7	1577.4
70°	3065.0	3129.5	3494.7	4309.3	5389.7	5581.6	5314.1	4224.2	3133.2	1872.7	837.9
72.5°	2721.8	2813.9	3220.8	4140.1	5213.8	5196.9	4613.4	3149.2	1861.6	752.1	327.3
75°	2074.4	2167.6	2517.7	3270.8	4120.8	3978.9	3273.4	1739.6	706.4	298.7	206.4
77.5°	1193.3	1265.6	1535.9	2005.8	2614.3	2468.7	1822.1	773.7	343.9	208.1	161.1
80°	666.2	706.4	870.6	1017.6	1281.1	1174.3	815.2	480.8	256.8	151.0	124.3
82.5°	526.7	562.5	704.1	641.9	585.1	539.9	468.3	428.1	205.1	95.2	74.4
85°	460.1	494.3	596.0	505.4	399.7	366.5	380.4	421.3	159.5	57.4	63.5
87.5°	426.4	472.0	531.1	389.5	311.2	275.7	351.1	461.9	51.4	35.8	25.7
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°	1008.8	1008.8	1008.8	1008.8	1008.8	1008.8	1008.8	1008.8	1008.8	1008.8	1008.8
2.5°	996.7	991.2	982.4	974.7	962.5	956.2	949.0	944.0	939.9	936.5	941.9
5°	965.9	955.7	937.2	917.3	893.6	875.0	859.5	845.0	834.8	828.1	832.8
7.5°	936.8	920.3	891.3	855.1	814.6	780.1	751.8	726.7	709.5	698.4	702.8
10°	920.3	899.7	854.8	798.0	738.2	684.5	639.9	601.4	574.7	559.5	561.8
12.5°	916.3	889.6	827.4	749.3	667.6	592.9	530.1	476.7	439.3	419.6	420.3
15°	919.3	885.2	801.7	702.8	599.3	505.1	426.7	361.8	318.2	295.9	295.6
17.5°	924.3	881.8	774.7	652.4	530.1	420.6	333.1	269.6	231.1	213.2	211.9
20°	929.8	876.4	744.3	598.0	458.1	342.3	260.9	211.1	186.8	177.1	176.4
22.5°	937.5	871.7	712.9	540.5	387.5	278.8	214.5	181.1	168.3	163.2	162.5
25°	950.0	869.3	679.4	480.8	324.0	233.1	186.8	166.2	158.8	155.4	155.1
27.5°	971.0	872.7	648.0	422.7	272.3	202.3	171.2	158.8	153.3	150.4	150.0
30°	998.0	883.1	614.9	367.5	232.1	181.5	161.8	153.7	149.4	146.3	146.3
32.5°	1043.0	900.7	580.1	320.0	203.4	166.9	154.8	149.4	145.6	143.2	142.9
35°	1109.2	933.9	547.7	280.4	182.8	156.4	148.6	144.6	141.9	140.6	140.6
37.5°	1205.4	986.2	518.9	252.1	170.3	149.4	142.9	139.8	138.2	138.2	138.2
40°	1334.8	1058.4	495.6	233.1	163.2	144.2	138.5	136.2	135.1	135.4	135.4
42.5°	1494.6	1152.5	480.1	219.9	159.8	141.3	135.4	133.5	132.5	132.1	132.5
45°	1676.7	1259.2	478.4	210.1	156.4	139.2	133.5	131.4	129.4	128.1	128.1
47.5°	1853.8	1367.6	492.2	206.7	152.7	136.9	131.8	129.7	126.7	123.7	123.7
50°	2010.2	1459.9	510.9	208.1	151.4	133.5	129.1	128.1	123.3	119.9	119.6
52.5°	2134.6	1530.8	526.0	212.2	152.7	131.0	125.7	126.0	120.9	117.2	116.9
55°	2234.2	1577.4	522.0	216.3	155.8	129.7	122.7	123.3	119.3	115.6	115.6
57.5°	2277.8	1560.2	477.0	212.9	158.1	130.1	120.3	123.0	119.6	116.2	116.2
60°	2184.2	1407.2	392.9	197.9	155.1	129.1	119.3	124.3	124.0	120.6	120.3
62.5°	1901.1	1133.1	304.7	176.0	144.6	124.0	116.5	124.0	127.7	126.7	126.3
65°	1465.3	807.1	232.8	152.4	130.4	115.6	109.5	116.2	121.3	122.7	122.3
67.5°	951.0	494.6	179.4	130.1	114.6	105.8	100.4	103.4	104.4	104.4	103.7
70°	467.6	266.3	142.9	109.5	98.3	95.2	92.3	90.5	88.9	87.5	87.5
72.5°	230.8	174.0	117.5	92.6	84.8	83.5	82.8	80.7	79.4	77.7	77.0
75°	170.6	141.6	100.0	78.1	72.9	71.6	72.9	71.3	71.0	69.6	68.9
77.5°	140.2	120.6	86.1	66.9	62.5	60.1	62.2	62.5	62.8	60.8	60.1
80°	113.9	102.0	71.9	55.4	51.4	49.7	51.0	53.7	54.4	51.4	50.0
82.5°	82.1	83.5	58.1	43.3	39.9	38.6	41.2	44.6	45.3	40.9	39.9
85°	68.9	69.6	44.6	30.8	27.4	25.4	29.8	33.1	35.5	31.1	30.1
87.5°	28.7	40.9	25.7	17.2	15.2	13.2	15.9	17.6	21.3	19.6	19.2
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)