

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: P191430

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191430  
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-02-LED-E1-T3-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8210.2 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

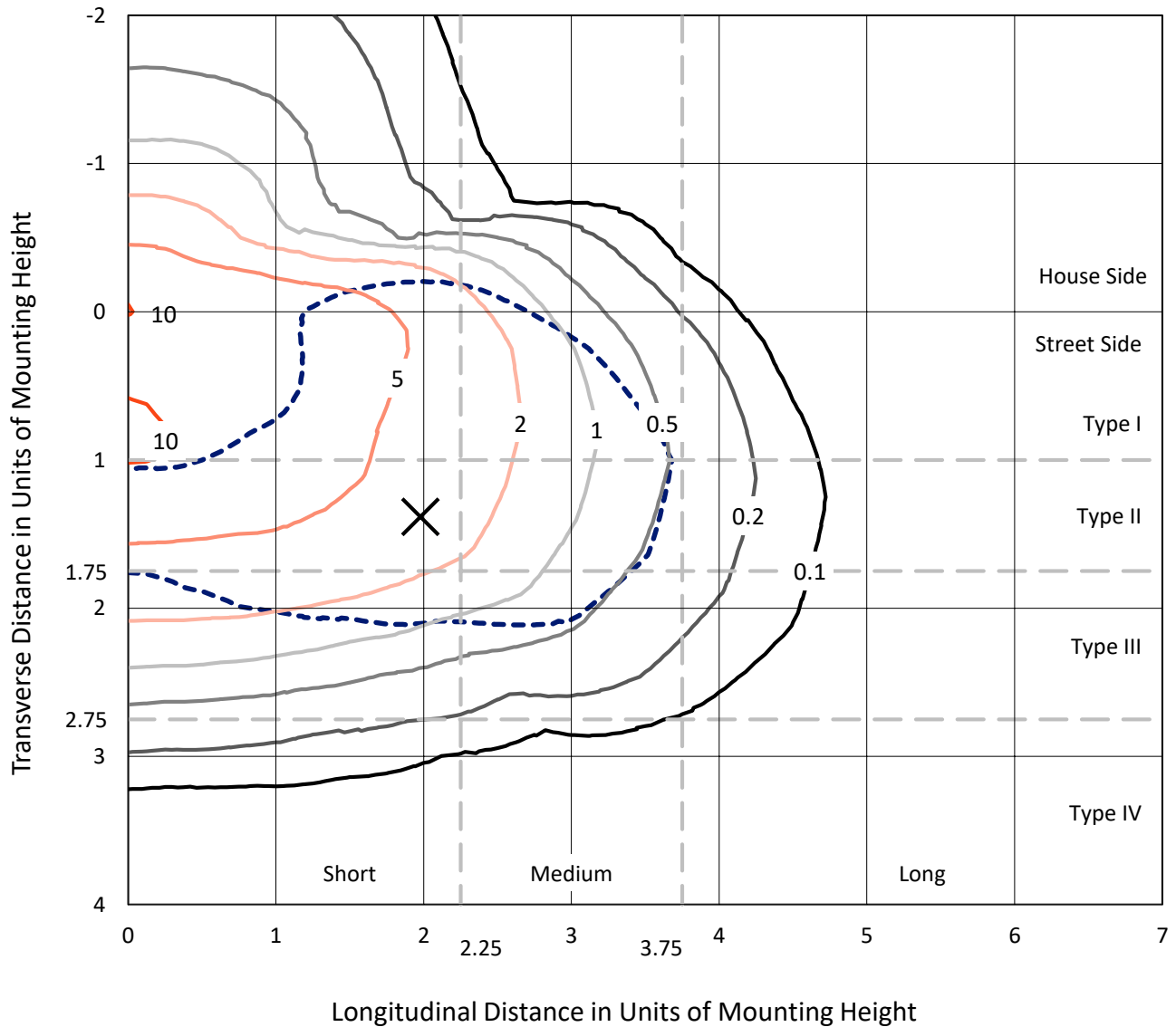
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

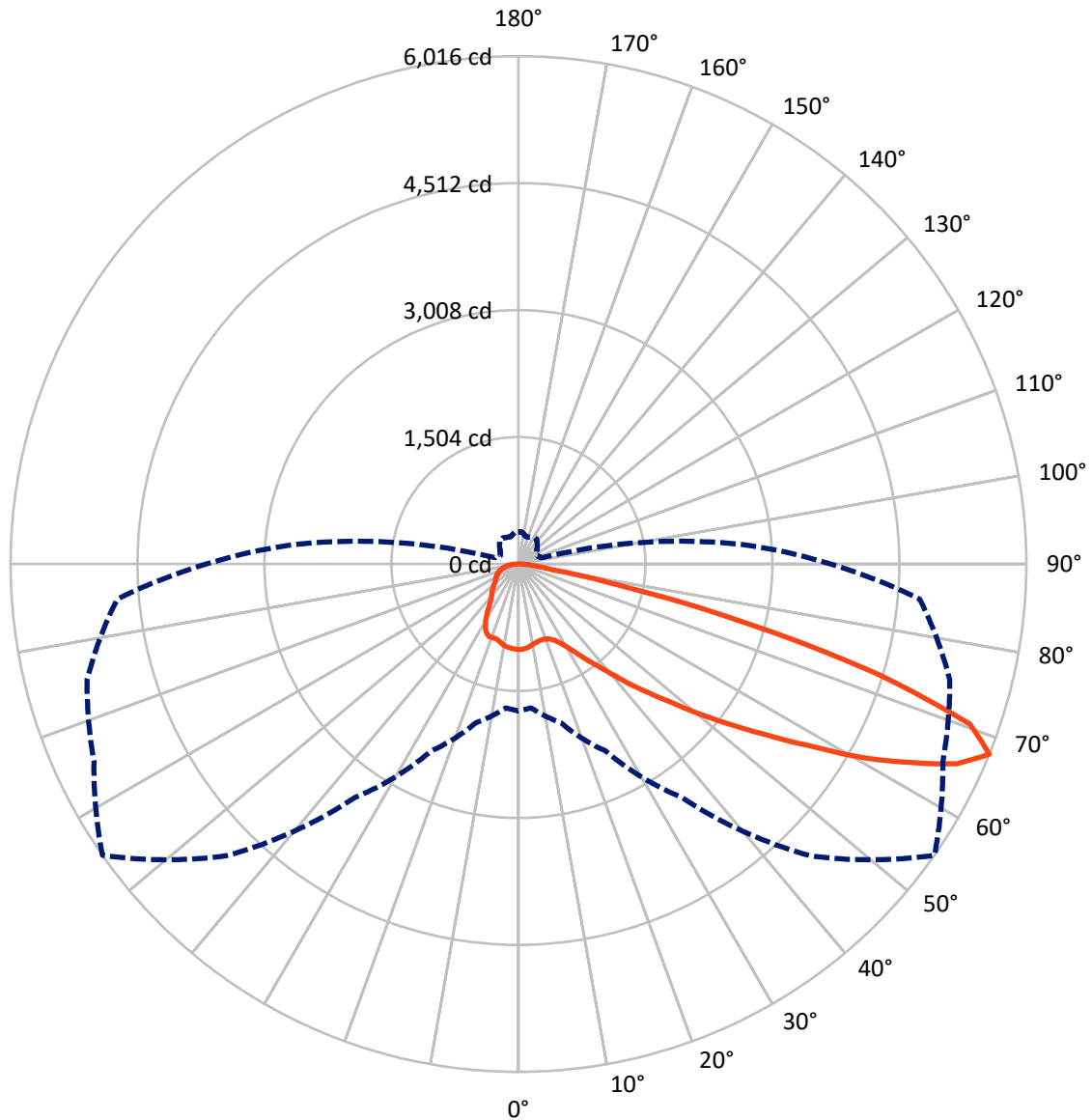
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 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
<b>House Side</b>	Lumens	1773.6	0.0	1773.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	6436.6	0.0	6436.6
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	8210.2	0.0	8210.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.5	1.2
10°-20°	267.6	3.3
20°-30°	448.3	5.5
30°-40°	737.2	9.0
40°-50°	1241.0	15.1
50°-60°	1953.2	23.8
60°-70°	2330.9	28.4
70°-80°	1000.9	12.2
80°-90°	136.5	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°	8210.2	100.0
0°-180°	8210.2	100.0



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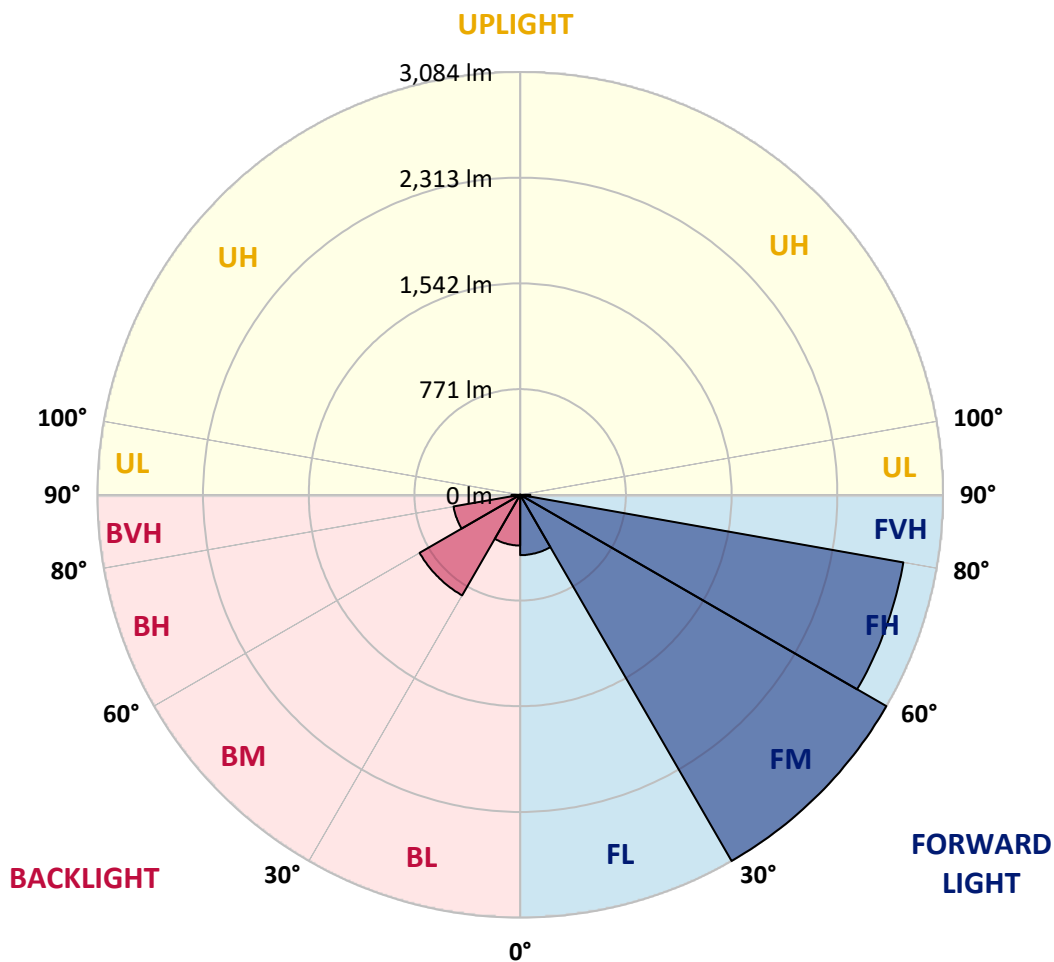
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	440.1	5.4			
FM	(30°-60°)	3084.4	37.6			
FH	(60°-80°)	2838.3	34.6			G2/5000
FVH	(80°-90°)	73.9	0.9			G1/100
BL	(0°-30°)	370.4	4.5	B1/500		
BM	(30°-60°)	847.1	10.3	B1/1000		
BH	(60°-80°)	493.6	6.0	B1/500		G1/500
BVH	(80°-90°)	62.6	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°	1012.4	1012.4	1012.4	1012.4	1012.4	1012.4	1012.4	1012.4	1012.4	1012.4	1012.4
2.5°	1003.7	1004.1	1004.8	1008.0	1010.8	1010.1	1010.5	1008.8	1008.4	1006.1	1008.4
5°	991.0	992.2	992.6	997.8	1001.0	1001.7	1000.5	998.5	996.1	993.8	994.9
7.5°	962.1	965.3	965.6	972.7	977.9	984.7	985.0	985.4	984.3	982.6	985.0
10°	943.8	944.6	944.2	949.4	953.3	960.9	965.3	972.7	975.9	976.7	978.4
12.5°	942.6	941.8	940.6	940.6	939.5	942.6	950.5	961.3	968.8	971.2	973.1
15°	955.3	954.9	950.9	945.0	937.4	935.1	941.8	953.7	963.6	968.8	970.8
17.5°	983.9	981.5	975.2	961.7	945.4	939.1	939.9	949.7	961.3	968.0	970.0
20°	1036.2	1036.2	1022.7	997.4	968.4	953.3	946.2	952.2	963.2	972.3	975.2
22.5°	1126.6	1127.4	1104.8	1063.2	1014.4	982.2	964.4	963.2	976.3	986.6	989.8
25°	1254.8	1251.6	1219.8	1160.3	1086.2	1033.1	1002.1	994.9	1006.1	1017.5	1021.5
27.5°	1403.8	1392.3	1354.6	1282.9	1186.9	1109.2	1061.6	1050.1	1060.8	1073.9	1077.9
30°	1551.3	1539.4	1494.6	1416.1	1309.5	1211.1	1142.8	1124.2	1139.3	1158.0	1160.3
32.5°	1698.8	1698.8	1648.9	1557.2	1441.1	1332.8	1251.2	1229.0	1253.9	1276.5	1281.7
35°	1875.3	1876.1	1827.7	1717.5	1592.5	1478.0	1387.9	1371.7	1409.3	1425.2	1437.6
37.5°	2092.2	2096.6	2034.3	1901.1	1764.3	1643.7	1536.7	1514.5	1552.1	1595.4	1635.0
40°	2326.6	2332.1	2263.6	2099.4	1962.5	1836.4	1720.7	1680.6	1743.2	1825.8	1876.9
42.5°	2550.2	2578.8	2512.6	2343.7	2196.5	2066.1	1948.7	1890.4	1968.9	2093.5	2137.9
45°	2873.5	2894.0	2778.6	2625.6	2487.2	2341.2	2185.8	2124.4	2234.2	2391.2	2400.4
47.5°	3088.8	3073.4	3014.6	2919.4	2831.8	2695.4	2461.4	2394.0	2540.0	2724.7	2673.6
50°	3203.4	3208.2	3200.2	3205.7	3208.9	3123.3	2799.3	2706.9	2880.9	3104.2	2986.5
52.5°	3310.5	3278.8	3304.9	3435.0	3592.0	3560.3	3166.9	3070.5	3246.6	3525.4	3317.2
55°	3308.1	3259.7	3344.9	3574.6	3915.2	3951.7	3579.7	3468.7	3633.2	3977.0	3667.8
57.5°	3191.1	3193.4	3324.7	3625.3	4140.4	4319.7	4058.8	3892.2	4043.3	4434.7	3987.8
60°	3030.1	3051.9	3241.0	3616.9	4320.8	4621.5	4646.4	4348.7	4445.0	4850.6	4252.7
62.5°	2770.4	2793.4	3054.2	3530.5	4293.5	4912.1	5177.9	4866.6	4864.9	5102.9	4330.4
65°	2360.7	2353.9	2628.0	3207.4	4063.9	5127.0	5705.6	5314.2	5181.5	5106.9	4174.2
67.5°	1740.9	1710.8	1945.9	2442.8	3377.9	4886.3	6016.2	5547.5	5289.3	4770.9	3696.7
70°	903.4	873.2	1063.6	1426.4	2221.5	3813.7	5672.4	5426.9	5050.9	3999.2	2896.1
72.5°	386.3	381.0	458.4	625.7	1074.7	2199.7	4447.8	4697.2	4333.9	2979.8	1991.1
75°	259.7	258.2	287.1	341.1	483.4	892.6	2783.4	3334.2	3170.8	1847.6	1119.8
77.5°	203.9	201.8	218.9	245.1	313.3	352.1	1235.3	1790.1	1656.8	804.2	490.1
80°	159.4	157.8	168.6	182.8	225.3	222.1	406.5	712.2	551.2	308.1	238.3
82.5°	125.7	125.7	134.4	134.8	159.8	151.5	212.2	313.6	275.2	179.6	146.0
85°	115.0	115.0	124.1	100.8	104.3	95.5	131.7	186.0	174.5	73.8	63.4
87.5°	57.9	56.3	104.3	89.2	56.7	50.7	64.2	90.0	96.8	40.8	31.7
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1012.4	1012.4	1012.4	1012.4	1012.4	1012.4	1012.4	1012.4	1012.4	1012.4
2.5°	1007.6	1007.3	1008.0	1008.4	1011.6	1016.0	1017.9	1020.7	1022.3	1021.5
5°	995.7	996.6	999.7	1002.1	1007.6	1014.8	1018.8	1021.9	1024.7	1023.5
7.5°	985.8	987.9	992.6	994.5	997.8	999.7	999.3	1000.5	1002.9	1000.1
10°	980.3	982.6	986.2	983.5	975.9	965.3	955.3	950.1	951.8	949.7
12.5°	974.8	977.9	975.2	962.1	941.0	927.1	919.6	920.5	923.9	924.7
15°	971.6	972.7	960.9	936.3	914.8	912.9	916.9	916.1	916.5	916.5
17.5°	971.6	968.4	946.2	921.6	912.5	908.9	896.6	881.2	874.4	872.1
20°	976.7	968.4	941.4	925.2	905.3	874.8	842.3	813.8	801.1	797.5
22.5°	992.2	977.9	954.9	926.8	870.4	819.3	767.7	733.7	710.6	706.7
25°	1023.5	1007.6	981.5	905.7	814.9	741.9	683.2	645.2	622.2	619.0
27.5°	1078.2	1068.0	995.7	859.4	741.1	663.1	608.8	579.4	562.3	561.1
30°	1160.7	1155.5	988.6	790.7	650.4	586.5	560.4	543.3	530.6	530.2
32.5°	1292.4	1250.8	965.3	707.1	567.4	532.1	521.5	511.2	501.2	501.2
35°	1461.7	1327.7	920.8	617.5	517.1	502.1	488.6	472.3	459.2	458.4
37.5°	1660.8	1375.3	841.1	545.2	493.3	481.8	462.0	437.8	414.8	410.8
40°	1861.9	1389.6	728.9	500.8	478.2	461.6	437.4	408.9	386.7	385.4
42.5°	2046.2	1362.2	609.9	470.4	463.2	441.0	415.6	390.3	372.8	372.4
45°	2200.9	1291.2	509.9	441.4	447.3	422.4	399.8	379.1	365.6	362.8
47.5°	2346.4	1190.8	439.8	410.8	431.5	412.0	393.0	373.6	360.5	358.4
50°	2515.3	1082.6	390.6	381.0	417.6	408.5	398.5	378.3	356.5	354.1
52.5°	2720.0	989.0	352.1	355.0	406.8	413.2	412.9	391.8	353.7	350.6
55°	2948.3	885.2	323.2	333.5	402.5	422.0	416.3	404.5	356.1	351.4
57.5°	3173.2	763.7	303.0	317.2	396.2	421.1	399.4	382.3	361.6	355.0
60°	3341.8	600.8	287.6	303.0	382.3	408.1	380.7	358.1	360.5	355.3
62.5°	3352.9	464.3	268.8	290.7	361.3	395.0	368.4	347.4	365.6	360.9
65°	3155.8	351.0	251.0	276.0	338.7	386.7	356.5	341.5	376.3	371.1
67.5°	2656.9	282.3	236.0	261.0	316.1	369.2	345.8	335.8	385.9	376.8
70°	1918.1	240.7	221.3	242.6	295.8	349.3	336.2	326.0	360.1	345.8
72.5°	1180.9	208.6	204.6	218.5	280.4	328.8	322.0	307.3	324.4	312.9
75°	589.6	180.9	186.0	194.7	258.6	305.4	298.2	283.6	285.9	283.6
77.5°	282.3	154.7	164.2	170.9	230.4	278.8	271.3	256.1	253.4	253.8
80°	178.8	129.3	138.4	143.1	205.8	247.9	240.3	225.3	257.0	238.3
82.5°	111.8	105.1	107.5	116.2	179.2	215.7	205.8	192.3	231.6	183.2
85°	61.9	73.3	76.5	84.1	138.0	180.4	170.5	153.4	137.6	135.2
87.5°	36.9	43.6	44.8	50.3	92.8	130.4	115.4	109.5	90.8	90.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)