

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: P193980

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193980  
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-T3-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8031 lumens  
Efficiency: N/A  
Efficacy: 94.5 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

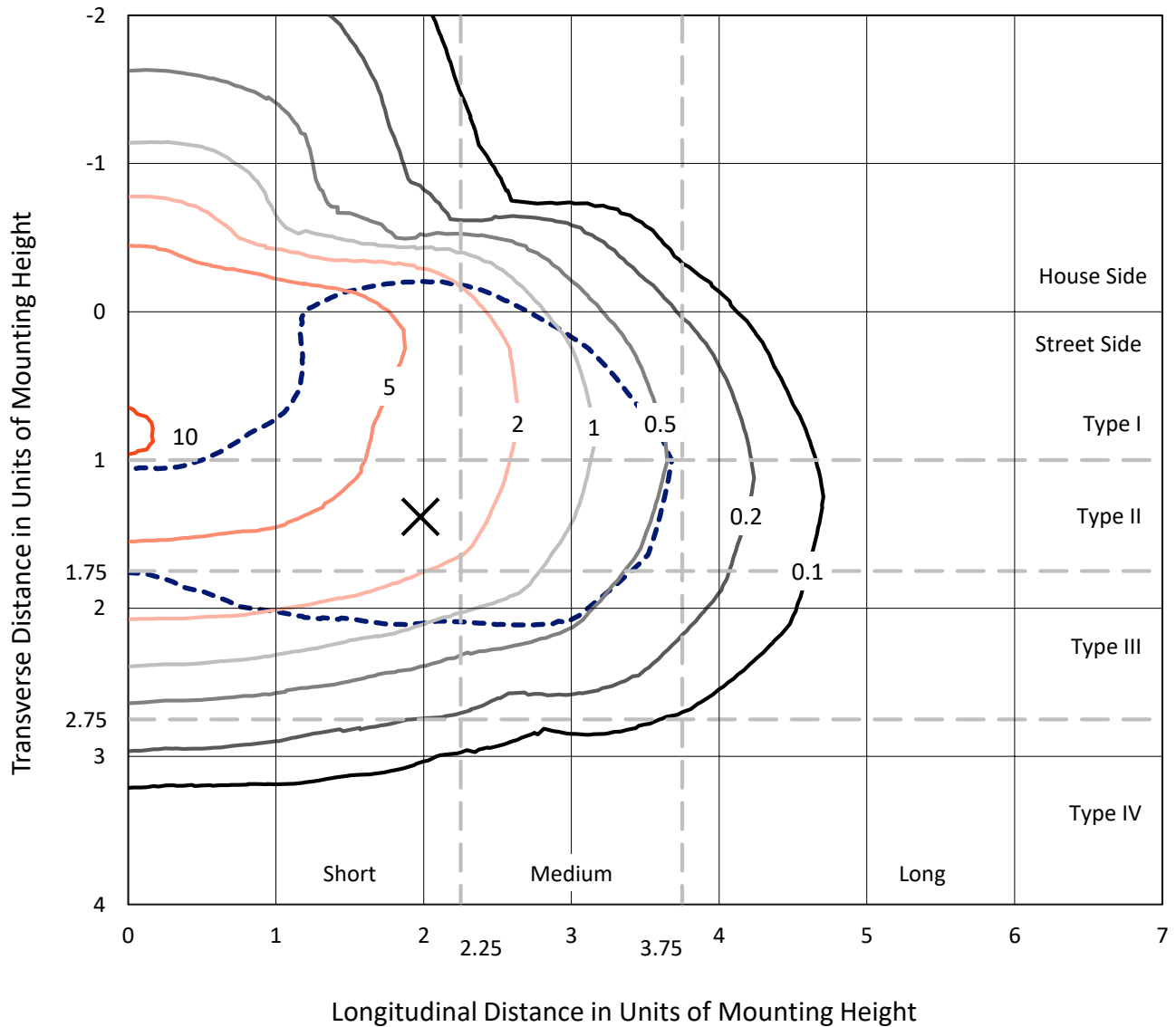
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

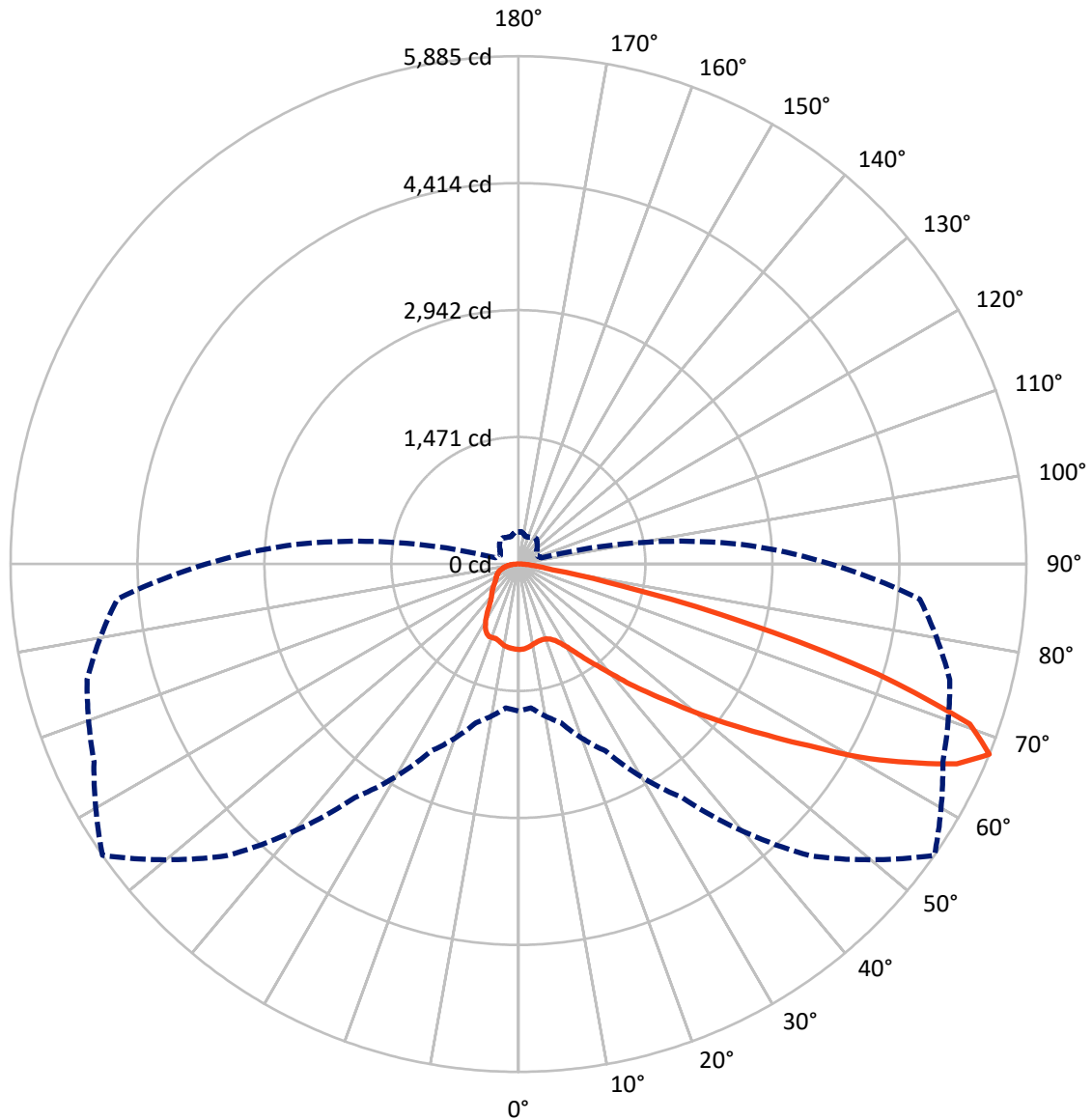
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 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	1734.9	0.0	1734.9
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	6296.1	0.0	6296.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	8031.0	0.0	8031.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.4	1.2
10°-20°	261.8	3.3
20°-30°	438.5	5.5
30°-40°	721.1	9.0
40°-50°	1213.9	15.1
50°-60°	1910.6	23.8
60°-70°	2280.1	28.4
70°-80°	979.1	12.2
80°-90°	133.5	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°	8031.0	100.0
0°-180°	8031.0	100.0



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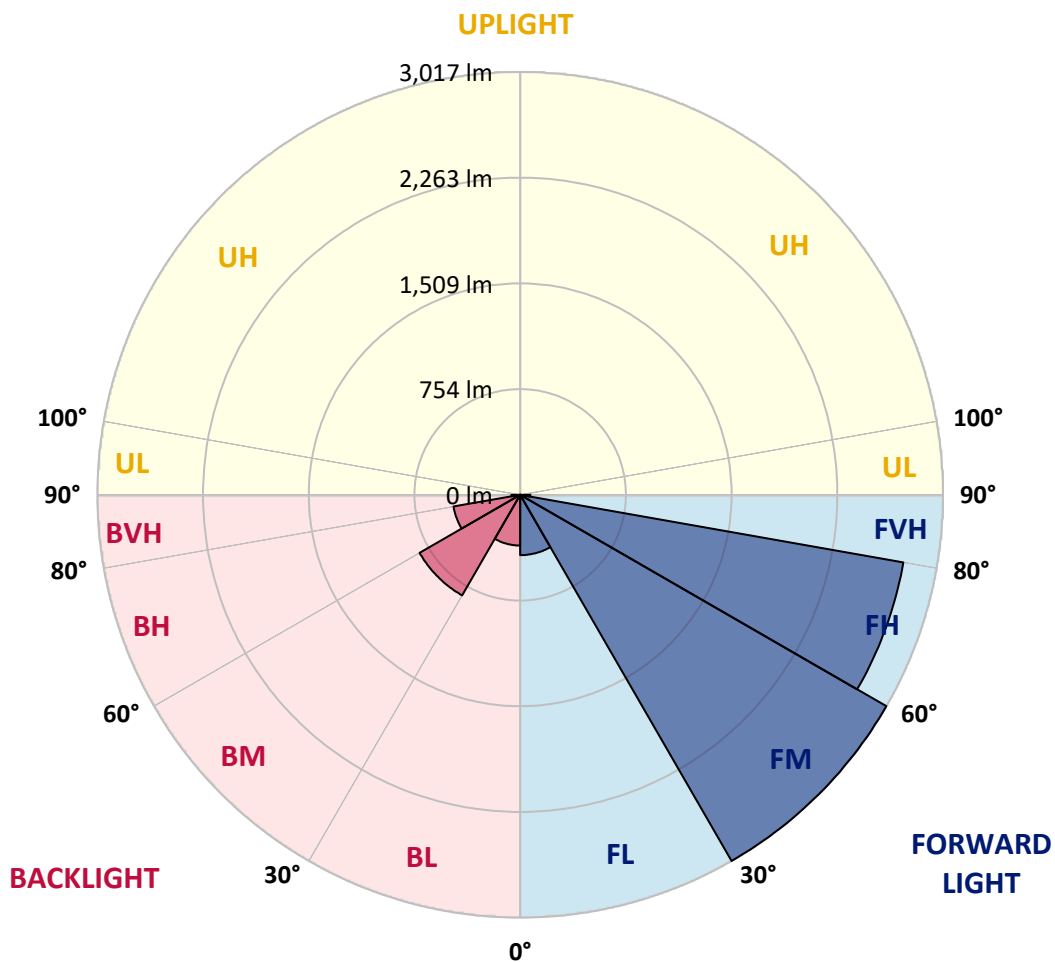
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	430.5	5.4			
FM	(30°-60°)	3017.0	37.6			
FH	(60°-80°)	2776.4	34.6			G2/5000
FVH	(80°-90°)	72.3	0.9			G1/100
BL	(0°-30°)	362.3	4.5	B1/500		
BM	(30°-60°)	828.6	10.3	B1/1000		
BH	(60°-80°)	482.8	6.0	B1/500		G1/500
BVH	(80°-90°)	61.2	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°	990.3	990.3	990.3	990.3	990.3	990.3	990.3	990.3	990.3	990.3	990.3
2.5°	981.8	982.2	982.9	986.0	988.8	988.0	988.4	986.8	986.4	984.1	986.4
5°	969.4	970.5	970.9	976.0	979.1	979.8	978.7	976.7	974.4	972.1	973.2
7.5°	941.0	944.1	944.5	951.5	956.6	963.2	963.5	963.9	962.8	961.2	963.5
10°	923.2	924.0	923.6	928.6	932.5	939.9	944.1	951.5	954.6	955.4	957.0
12.5°	922.0	921.3	920.1	920.1	918.9	922.0	929.8	940.3	947.6	950.0	951.9
15°	934.5	934.1	930.2	924.4	917.0	914.7	921.3	932.9	942.6	947.6	949.6
17.5°	962.4	960.1	953.8	940.7	924.8	918.5	919.3	929.0	940.3	946.9	948.8
20°	1013.6	1013.6	1000.4	975.6	947.3	932.5	925.5	931.3	942.2	951.1	953.8
22.5°	1102.0	1102.8	1080.7	1040.0	992.2	960.8	943.4	942.2	955.0	965.1	968.2
25°	1227.3	1224.2	1193.2	1135.0	1062.5	1010.5	980.2	973.2	984.1	995.4	999.2
27.5°	1373.2	1361.9	1325.1	1254.9	1161.0	1085.0	1038.4	1027.2	1037.6	1050.4	1054.3
30°	1517.5	1505.8	1462.0	1385.2	1280.8	1184.6	1117.9	1099.7	1114.4	1132.7	1135.0
32.5°	1661.8	1661.8	1612.9	1523.3	1409.6	1303.7	1223.8	1202.1	1226.5	1248.7	1253.7
35°	1834.4	1835.2	1787.8	1680.0	1557.8	1445.7	1357.7	1341.7	1378.6	1394.1	1406.1
37.5°	2046.6	2050.8	1989.9	1859.6	1725.8	1607.8	1503.1	1481.4	1518.2	1560.5	1599.3
40°	2275.8	2281.2	2214.1	2053.5	1919.7	1796.4	1683.1	1643.9	1705.2	1785.9	1835.9
42.5°	2494.6	2522.5	2457.7	2292.5	2148.6	2021.0	1906.1	1849.1	1925.9	2047.7	2091.2
45°	2810.7	2830.9	2718.0	2568.3	2432.9	2290.2	2138.1	2078.0	2185.4	2339.0	2348.0
47.5°	3021.4	3006.2	2948.8	2855.7	2770.0	2636.6	2407.7	2341.8	2484.5	2665.3	2615.2
50°	3133.5	3138.1	3130.4	3135.8	3138.9	3055.1	2738.2	2647.8	2818.1	3036.5	2921.3
52.5°	3238.2	3207.2	3232.8	3360.0	3513.6	3482.6	3097.8	3003.5	3175.7	3448.4	3244.8
55°	3235.9	3188.5	3271.9	3496.5	3829.7	3865.4	3501.6	3393.0	3553.9	3890.3	3587.7
57.5°	3121.4	3123.8	3252.2	3546.2	4050.1	4225.4	3970.2	3807.2	3955.0	4337.9	3900.7
60°	2963.9	2985.3	3170.3	3538.0	4226.6	4520.6	4545.0	4253.7	4348.0	4744.8	4159.8
62.5°	2709.9	2732.4	2987.6	3453.5	4199.8	4804.9	5064.8	4760.3	4758.8	4991.5	4235.9
65°	2309.2	2302.6	2570.6	3137.3	3975.2	5015.2	5581.1	5198.3	5068.3	4995.4	4083.0
67.5°	1702.9	1673.4	1903.4	2389.5	3304.1	4779.7	5884.8	5426.3	5173.8	4666.8	3616.0
70°	883.6	854.2	1040.3	1395.3	2173.0	3730.4	5548.5	5308.4	4940.7	3912.0	2832.8
72.5°	377.8	372.8	448.4	612.1	1051.2	2151.7	4350.7	4594.7	4239.4	2914.7	1947.6
75°	254.1	252.5	280.8	333.6	472.9	873.2	2722.7	3261.5	3101.7	1807.2	1095.4
77.5°	199.4	197.4	214.1	239.7	306.4	344.5	1208.3	1751.0	1620.6	786.7	479.4
80°	155.9	154.4	164.9	178.8	220.3	217.2	397.6	696.7	539.2	301.4	233.1
82.5°	123.0	123.0	131.5	131.9	156.3	148.2	207.5	306.8	269.2	175.7	142.7
85°	112.5	112.5	121.4	98.5	102.0	93.5	128.8	181.9	170.7	72.1	62.1
87.5°	56.6	55.1	102.0	87.3	55.5	49.7	62.8	88.1	94.6	40.0	31.0
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°	990.3	990.3	990.3	990.3	990.3	990.3	990.3	990.3	990.3	990.3
2.5°	985.7	985.3	986.0	986.4	989.5	993.8	995.7	998.5	1000.0	999.2
5°	974.0	974.8	977.9	980.2	985.7	992.6	996.5	999.6	1002.3	1001.2
7.5°	964.3	966.3	970.9	972.9	976.0	977.9	977.5	978.7	981.0	978.3
10°	958.9	961.2	964.7	962.0	954.6	944.1	934.5	929.4	931.0	929.0
12.5°	953.5	956.6	953.8	941.0	920.5	906.9	899.5	900.3	903.8	904.6
15°	950.4	951.5	939.9	915.8	894.9	892.9	896.8	896.1	896.4	896.4
17.5°	950.4	947.3	925.5	901.5	892.6	889.1	877.0	861.9	855.3	853.0
20°	955.4	947.3	920.9	905.0	885.6	855.7	823.9	796.0	783.6	780.1
22.5°	970.5	956.6	934.1	906.5	851.4	801.4	751.0	717.6	695.1	691.2
25°	1001.2	985.7	960.1	886.0	797.1	725.8	668.4	631.1	608.6	605.5
27.5°	1054.7	1044.6	974.0	840.6	725.0	648.6	595.4	566.7	550.0	548.9
30°	1135.4	1130.3	967.0	773.5	636.2	573.7	548.1	531.4	519.0	518.6
32.5°	1264.2	1223.4	944.1	691.6	555.1	520.6	510.1	500.0	490.3	490.3
35°	1429.8	1298.7	900.7	604.0	505.8	491.1	477.9	462.0	449.2	448.4
37.5°	1624.5	1345.2	822.7	533.4	482.5	471.3	451.9	428.2	405.7	401.9
40°	1821.2	1359.2	713.0	489.9	467.8	451.5	427.9	399.9	378.2	377.0
42.5°	2001.6	1332.4	596.6	460.1	453.1	431.3	406.5	381.7	364.6	364.2
45°	2152.8	1263.0	498.8	431.7	437.6	413.1	391.0	370.8	357.6	354.9
47.5°	2295.2	1164.9	430.2	401.9	422.0	403.0	384.4	365.4	352.6	350.7
50°	2460.5	1059.0	382.1	372.8	408.5	399.5	389.8	370.1	348.7	346.4
52.5°	2660.6	967.4	344.5	347.2	398.0	404.2	403.8	383.2	346.0	342.9
55°	2884.0	865.8	316.1	326.2	393.7	412.7	407.3	395.7	348.3	343.7
57.5°	3104.0	747.1	296.4	310.3	387.5	412.0	390.6	373.9	353.8	347.2
60°	3268.8	587.7	281.2	296.4	373.9	399.1	372.4	350.3	352.6	347.6
62.5°	3279.7	454.2	263.0	284.3	353.4	386.3	360.4	339.8	357.6	353.0
65°	3086.9	343.3	245.5	270.0	331.3	378.2	348.7	334.0	368.1	363.1
67.5°	2598.9	276.2	230.8	255.2	309.2	361.1	338.2	328.6	377.4	368.5
70°	1876.3	235.5	216.4	237.4	289.4	341.7	328.9	318.9	352.2	338.2
72.5°	1155.2	204.0	200.2	213.7	274.2	321.6	315.0	300.6	317.3	306.1
75°	576.8	176.9	181.9	190.5	252.9	298.7	291.7	277.3	279.7	277.3
77.5°	276.2	151.3	160.6	167.2	225.4	272.7	265.3	250.6	247.9	248.3
80°	174.9	126.5	135.4	140.0	201.3	242.4	235.1	220.3	251.4	233.1
82.5°	109.4	102.8	105.1	113.7	175.3	211.0	201.3	188.1	226.5	179.2
85°	60.5	71.8	74.9	82.2	135.0	176.5	166.8	150.1	134.6	132.3
87.5°	36.1	42.7	43.8	49.3	90.8	127.6	112.9	107.1	88.8	88.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)