

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: P192179

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6709 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full 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

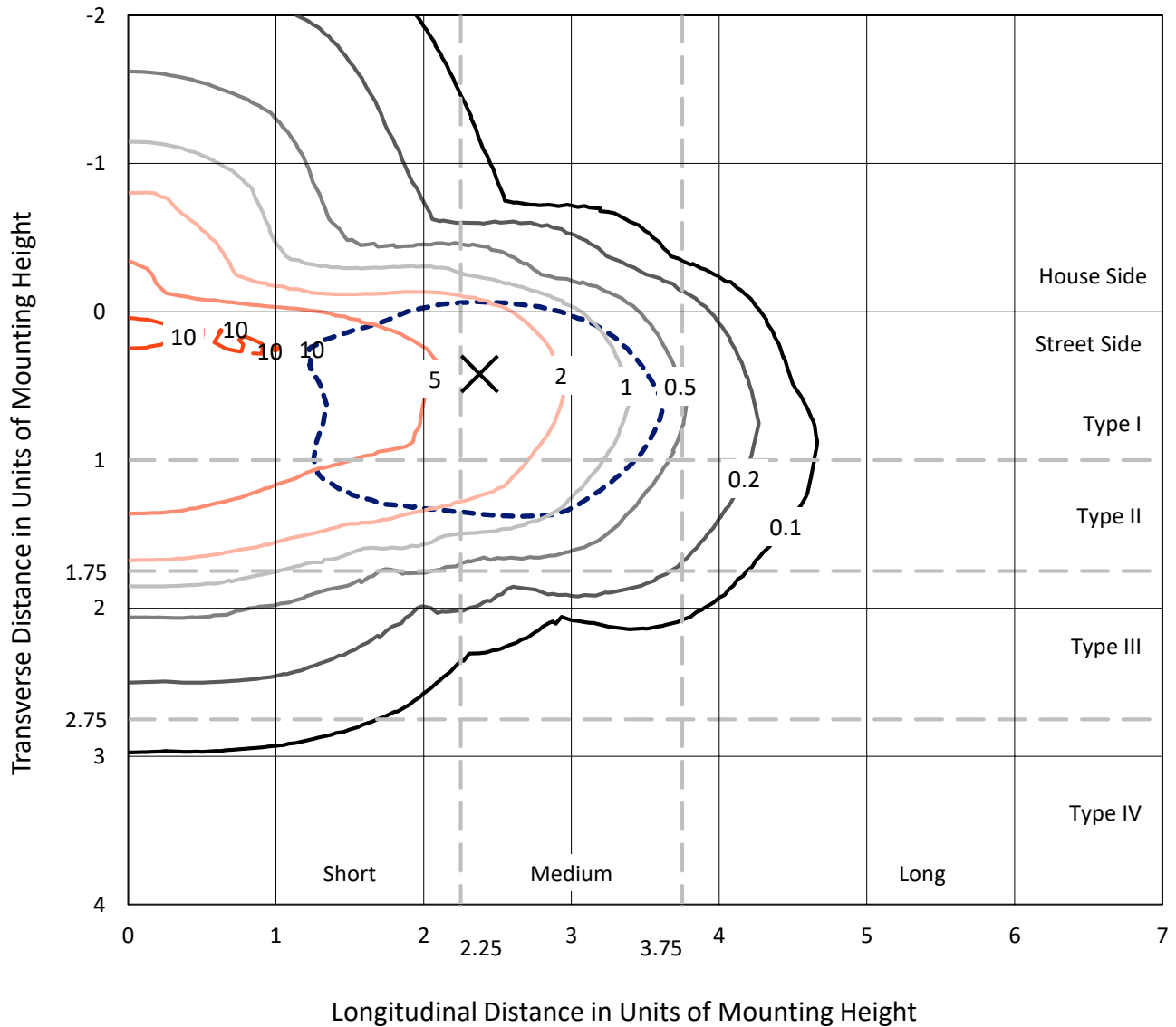


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

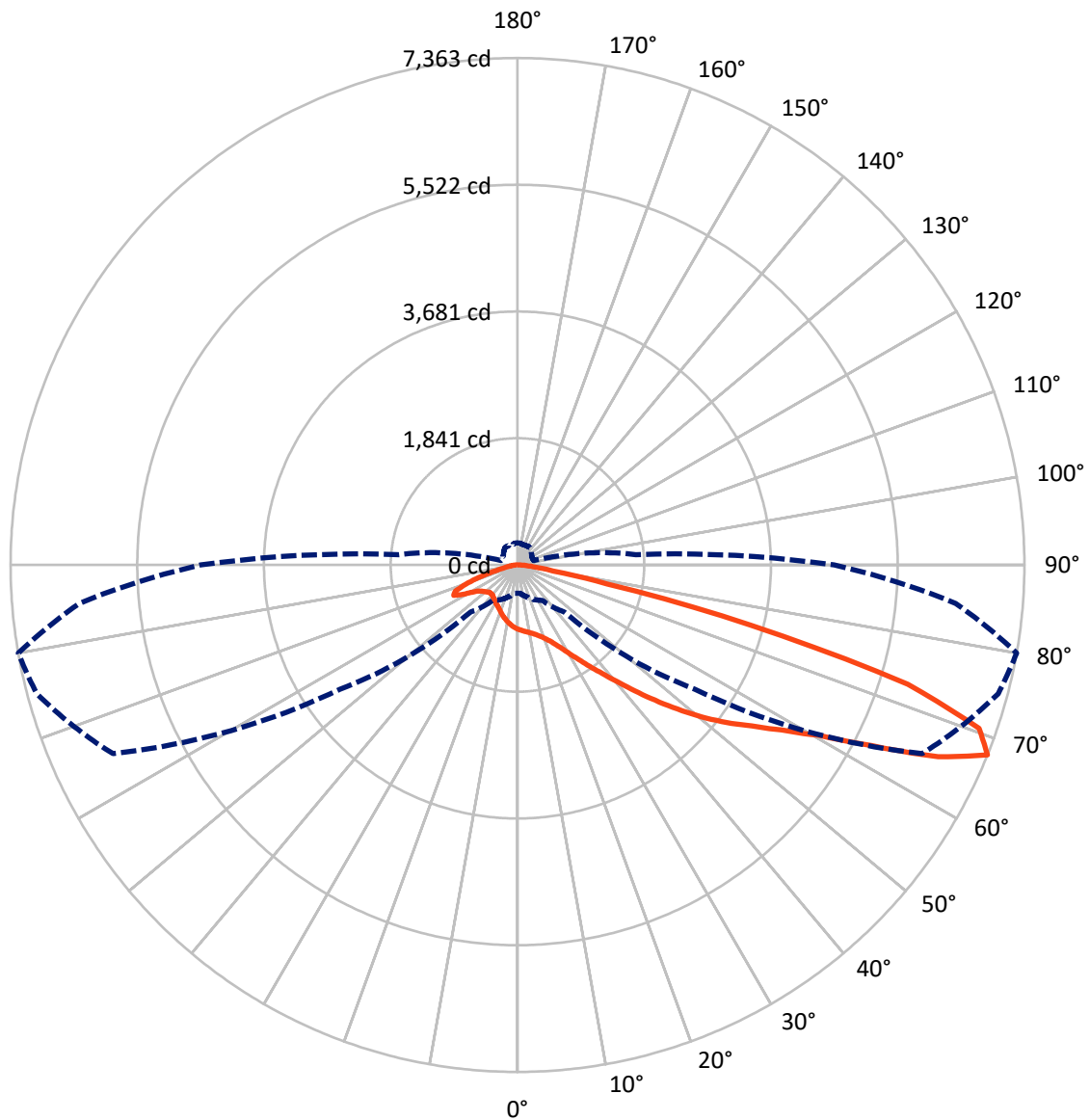


Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1235.5	0.0	1235.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	5473.5	0.0	5473.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	6709.0	0.0	6709.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	1.3
10°-20°	247.7	3.7
20°-30°	410.0	6.1
30°-40°	670.6	10.0
40°-50°	1082.8	16.1
50°-60°	1563.2	23.3
60°-70°	1725.1	25.7
70°-80°	795.2	11.9
80°-90°	128.6	1.9
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°	6709.0	100.0
0°-180°	6709.0	100.0



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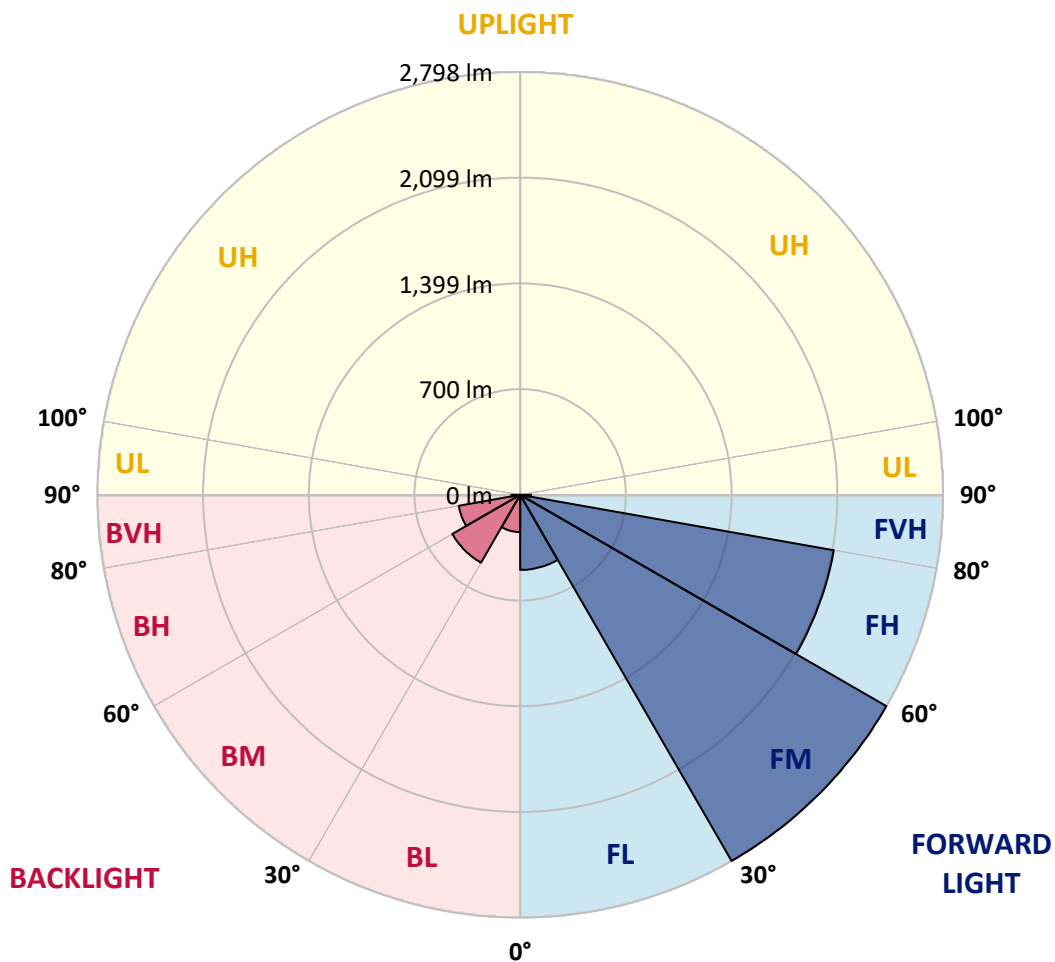
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.1	7.4			
FM (30°-60°)	2798.2	41.7			
FH (60°-80°)	2107.5	31.4			G2/5000
FVH (80°-90°)	70.7	1.1			G1/100
BL (0°-30°)	246.5	3.7	B1/500		
BM (30°-60°)	518.4	7.7	B1/1000		
BH (60°-80°)	412.7	6.2	B1/500		G1/500
BVH (80°-90°)	57.9	0.9			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1
2.5°	1019.6	1013.7	1014.6	1013.0	1008.0	999.5	990.2	973.4	955.9	946.6	939.3
5°	1104.8	1103.2	1100.9	1095.6	1083.0	1065.2	1043.1	1013.3	981.3	964.4	948.3
7.5°	1168.6	1167.6	1164.6	1161.3	1149.1	1127.6	1094.2	1052.0	1005.4	982.3	957.2
10°	1173.8	1175.5	1177.8	1186.7	1188.4	1176.8	1142.8	1091.6	1030.5	1000.8	968.7
12.5°	1128.9	1132.6	1141.5	1164.3	1188.4	1202.6	1185.1	1133.2	1059.9	1023.9	983.3
15°	1069.5	1071.5	1082.4	1113.7	1157.0	1200.9	1217.4	1179.1	1097.9	1053.6	1005.1
17.5°	1044.0	1045.0	1052.6	1073.4	1113.7	1176.5	1235.6	1229.0	1144.5	1090.6	1031.8
20°	1031.2	1033.5	1044.4	1064.9	1090.3	1145.1	1238.3	1282.8	1199.9	1136.9	1065.5
22.5°	1067.8	1066.8	1070.8	1081.0	1102.5	1135.5	1236.3	1338.3	1270.6	1196.3	1109.4
25°	1153.4	1157.0	1150.1	1138.5	1145.4	1168.6	1246.8	1398.4	1359.1	1272.6	1166.9
27.5°	1275.2	1271.6	1261.4	1234.3	1220.1	1230.0	1281.9	1463.2	1469.1	1373.0	1242.9
30°	1396.8	1393.8	1383.9	1350.9	1321.8	1313.6	1349.9	1537.5	1600.2	1493.6	1336.0
32.5°	1523.0	1519.7	1510.4	1477.4	1442.4	1423.2	1446.7	1623.4	1754.8	1637.6	1445.7
35°	1678.5	1672.3	1652.8	1606.9	1572.5	1557.6	1568.5	1731.4	1933.2	1808.0	1578.8
37.5°	1824.8	1834.4	1814.6	1751.2	1706.6	1701.3	1713.5	1863.2	2125.4	1998.6	1731.7
40°	1971.8	1973.5	1955.6	1903.8	1857.9	1849.3	1880.0	2023.0	2352.3	2226.5	1917.7
42.5°	2123.8	2127.1	2097.0	2049.1	2015.4	2017.1	2052.1	2210.3	2612.6	2495.0	2131.7
45°	2303.8	2308.7	2275.7	2212.9	2182.2	2244.0	2229.4	2420.4	2898.0	2800.2	2377.4
47.5°	2492.0	2499.6	2474.5	2415.7	2377.4	2462.3	2406.8	2653.2	3205.1	3127.5	2647.3
50°	2594.7	2605.6	2630.1	2625.8	2617.5	2603.3	2604.7	2902.9	3521.9	3468.4	2924.7
52.5°	2539.6	2539.3	2628.4	2736.8	2852.4	2861.0	2845.8	3166.1	3817.8	3801.6	3186.0
55°	2287.3	2304.4	2439.5	2649.2	2965.0	3162.2	3207.1	3467.7	4108.5	4127.3	3451.2
57.5°	1867.1	1881.3	2063.6	2356.0	2813.1	3341.2	3721.0	3906.0	4433.5	4521.3	3804.3
60°	1266.3	1283.5	1476.7	1827.8	2404.2	3241.5	4210.2	4688.1	4822.5	5022.4	4299.7
62.5°	744.1	759.7	917.2	1153.0	1692.7	2778.1	4424.9	5800.9	5440.5	5778.4	5055.4
65°	512.3	522.8	599.5	717.7	972.7	1871.1	4158.7	6569.1	6391.4	6715.1	5931.7
67.5°	412.2	410.9	471.7	552.2	626.2	964.8	3144.7	6482.2	7227.7	7362.8	6386.5
70°	339.5	338.2	379.5	446.2	500.4	543.3	1712.9	5470.2	7057.3	7112.1	5967.7
72.5°	284.0	285.4	311.8	361.3	410.5	409.2	752.7	3848.2	5551.8	5931.0	4757.2
75°	239.8	240.5	258.0	293.0	333.3	329.6	408.2	2084.8	3227.3	3491.2	2637.0
77.5°	204.1	204.8	216.0	235.5	264.2	262.9	297.9	900.7	1346.3	1329.7	902.0
80°	182.0	182.0	187.3	190.9	206.8	200.8	221.0	432.7	569.1	525.5	360.0
82.5°	142.7	143.3	175.7	174.4	162.8	155.2	155.2	255.0	301.6	278.8	210.7
85°	80.3	79.9	113.3	136.7	143.3	109.3	108.3	142.7	164.2	144.7	102.1
87.5°	34.4	35.0	52.5	60.8	81.3	68.0	67.0	73.7	83.6	72.3	47.2
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°	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1
2.5°	932.4	923.8	905.0	881.5	860.4	846.5	834.0	815.8	816.8	804.3	795.0
5°	931.7	913.9	870.3	818.5	768.6	732.6	705.5	681.1	675.1	663.6	656.6
7.5°	932.4	903.3	830.0	747.1	685.3	639.8	616.6	603.8	600.8	596.8	597.2
10°	934.7	893.8	785.8	680.4	615.7	585.6	580.0	584.0	588.6	589.9	590.2
12.5°	940.0	885.2	737.2	620.9	572.1	562.8	572.4	585.9	594.9	599.1	598.8
15°	951.9	878.6	690.6	574.4	547.9	552.9	570.7	589.9	602.8	608.7	609.1
17.5°	964.8	869.0	642.7	538.7	530.1	542.7	564.8	587.3	603.1	609.7	611.0
20°	981.6	857.1	592.5	511.9	513.3	527.5	548.3	570.7	588.2	593.9	596.5
22.5°	1003.7	844.2	548.6	490.1	494.1	505.0	521.2	540.7	555.9	558.5	560.8
25°	1033.5	830.3	513.6	470.3	472.0	478.3	489.2	500.7	511.3	508.3	510.6
27.5°	1073.4	818.5	487.5	452.2	449.2	450.5	456.1	459.8	465.4	457.1	458.1
30°	1120.3	805.6	467.4	436.3	428.1	425.7	427.1	429.0	433.3	422.1	420.5
32.5°	1174.8	790.1	448.5	422.4	410.9	406.3	406.9	412.2	428.7	421.8	418.1
35°	1238.3	772.5	428.7	407.2	399.3	392.7	392.1	408.6	457.8	453.5	450.2
37.5°	1312.6	755.0	408.9	390.1	390.7	383.5	381.2	400.0	463.4	446.6	444.2
40°	1407.0	745.8	392.1	371.9	380.2	379.2	374.5	384.1	426.4	395.7	391.7
42.5°	1524.0	747.1	379.5	352.4	367.6	378.2	370.9	371.2	386.4	363.3	359.7
45°	1668.3	762.6	370.6	336.9	353.4	377.2	369.6	364.3	365.6	353.4	351.4
47.5°	1836.7	794.7	364.3	324.0	339.9	373.6	369.3	362.3	359.4	352.7	351.1
50°	2024.0	841.2	359.7	311.8	327.6	367.6	369.6	360.3	357.0	354.4	353.4
52.5°	2208.0	894.4	352.7	301.2	318.1	360.3	370.6	358.4	354.7	352.7	351.8
55°	2413.1	960.8	342.2	292.3	310.1	351.1	370.6	355.4	351.4	351.8	351.4
57.5°	2690.2	1068.2	329.6	284.7	300.6	339.9	364.3	352.1	347.1	347.5	347.8
60°	3123.2	1257.4	314.4	277.1	288.7	326.7	355.7	344.8	339.9	341.2	341.5
62.5°	3760.0	1535.2	294.6	265.9	276.1	312.5	343.8	335.6	330.6	333.9	333.9
65°	4421.9	1780.3	270.2	251.7	262.9	296.9	329.0	324.0	319.1	326.7	326.3
67.5°	4599.9	1725.4	245.7	236.2	249.7	279.8	311.1	308.5	305.8	319.1	318.4
70°	4086.3	1385.2	223.3	220.3	235.2	261.3	292.0	292.0	290.3	300.2	297.9
72.5°	3113.3	982.3	201.8	203.5	218.7	241.1	271.2	273.5	270.8	275.8	273.8
75°	1666.6	562.2	180.3	185.0	198.2	220.6	248.0	250.4	248.7	248.4	249.4
77.5°	553.9	274.8	157.9	165.1	176.7	199.5	223.9	227.6	223.6	222.9	222.6
80°	246.7	172.7	133.1	142.7	152.9	175.4	198.5	201.5	197.2	203.1	195.5
82.5°	158.5	113.6	106.7	117.3	127.2	151.3	173.1	173.7	169.8	197.2	168.1
85°	77.0	70.4	80.3	89.8	98.4	118.9	143.3	143.7	133.8	121.9	117.6
87.5°	38.3	41.0	53.5	62.1	66.4	81.6	104.4	102.4	98.1	89.2	82.2
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)