

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: P192379

Luminaire Tested: **GLEON-AF-01-LED-E1-T4W-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6789 lumens
Efficiency: N/A
Efficacy: 101.3 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

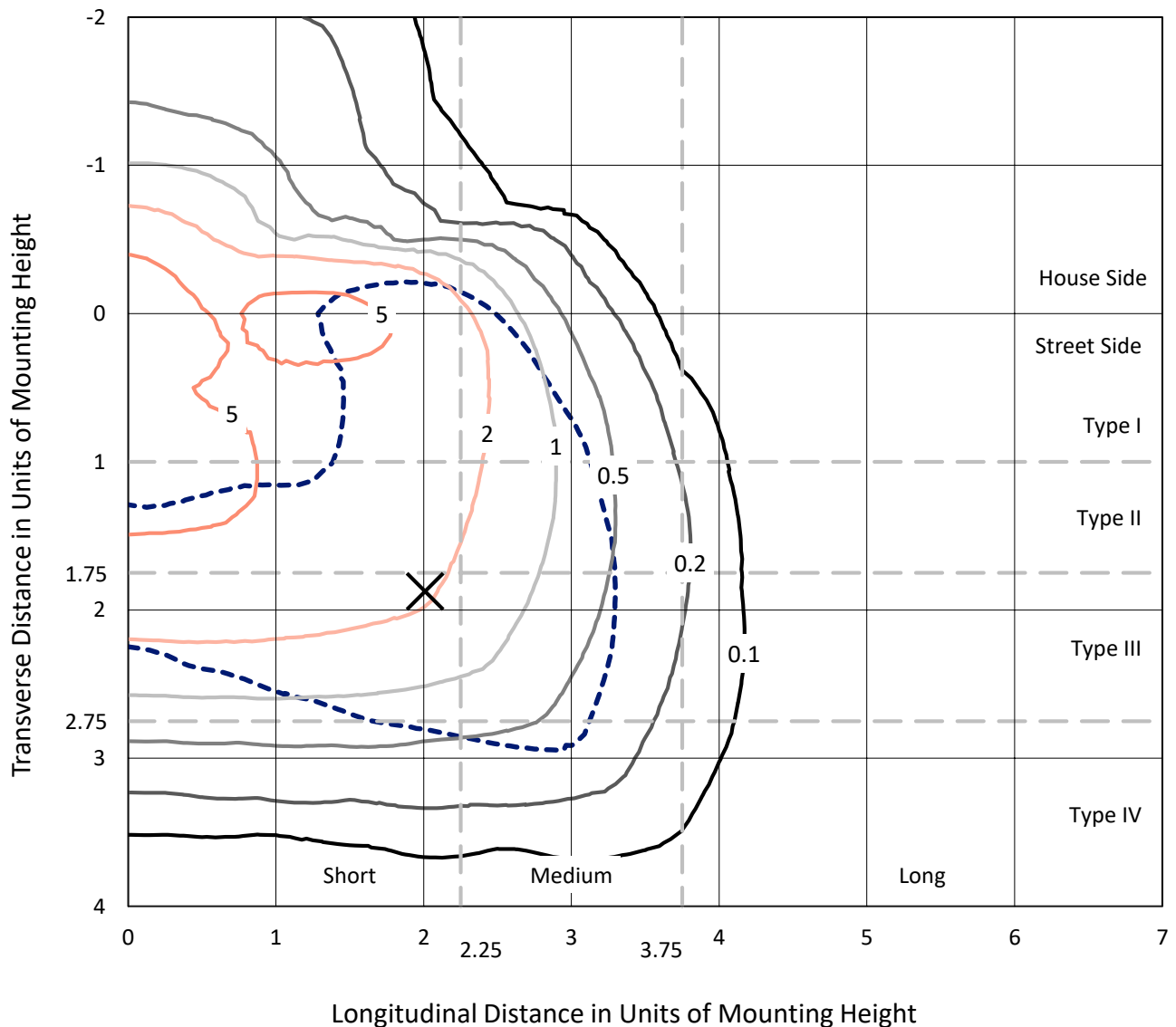


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

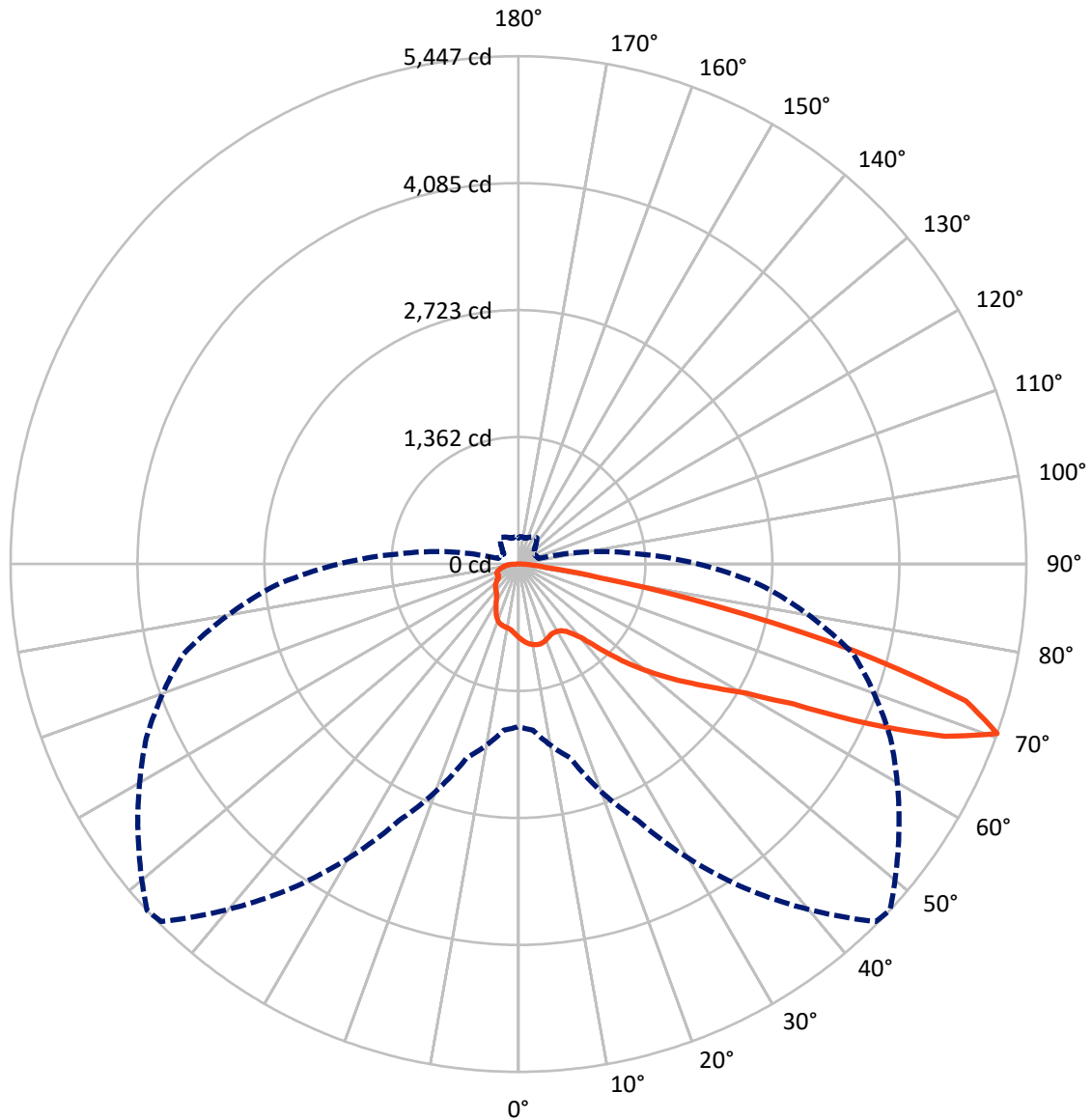


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1416.3	0.0	1416.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	5372.7	0.0	5372.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	6789.0	0.0	6789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.1
10°-20°	221.4	3.3
20°-30°	327.0	4.8
30°-40°	475.3	7.0
40°-50°	855.3	12.6
50°-60°	1481.8	21.8
60°-70°	2115.0	31.2
70°-80°	1085.7	16.0
80°-90°	152.0	2.2
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°	6789.0	100.0
0°-180°	6789.0	100.0

Coefficient of Utilization



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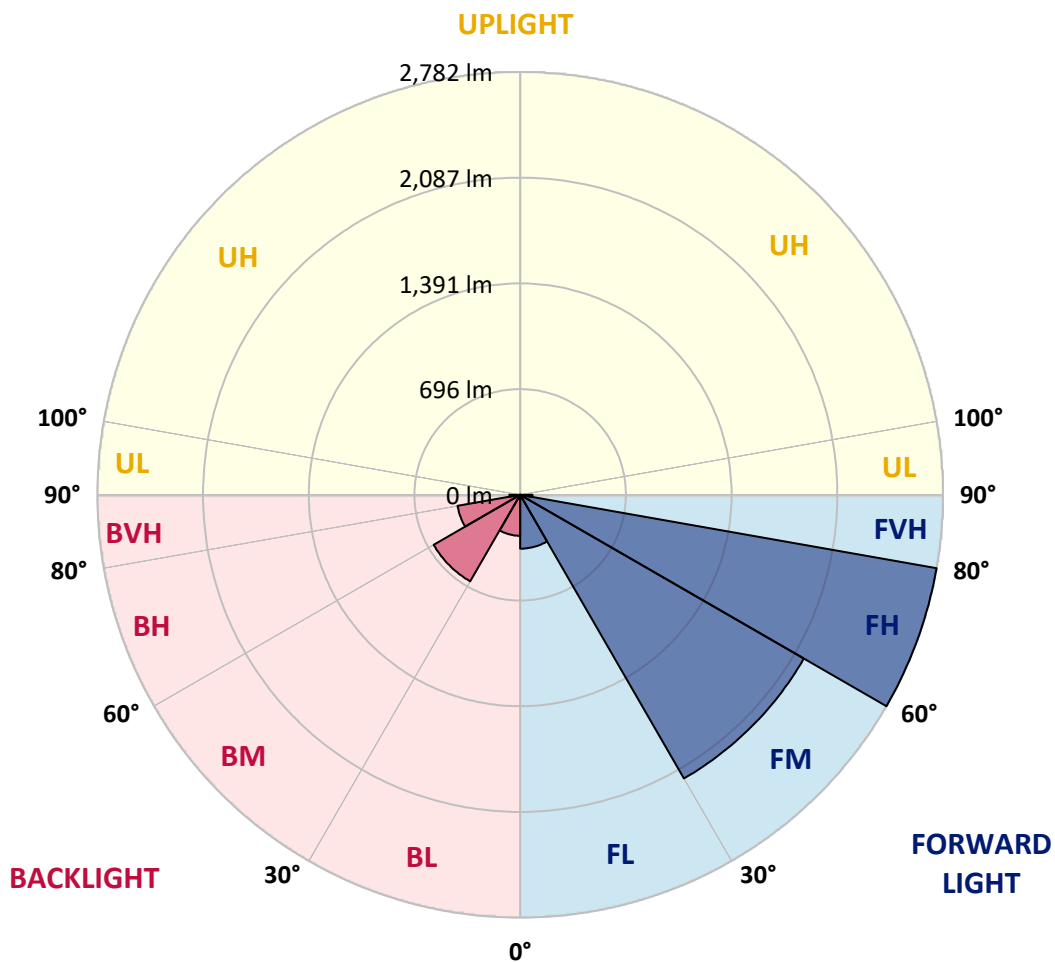
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.2	5.2			
FM	(30°-60°)	2155.0	31.7			
FH	(60°-80°)	2782.3	41.0			G2/5000
FVH	(80°-90°)	81.1	1.2			G1/100
BL	(0°-30°)	269.7	4.0	B1/500		
BM	(30°-60°)	657.4	9.7	B1/1000		
BH	(60°-80°)	418.3	6.2	B1/500		G1/500
BVH	(80°-90°)	70.9	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°	47°	55°	65°	75°	85°
0°	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7
2.5°	834.0	832.3	831.7	830.3	828.7	820.4	818.8	812.8	804.6	796.0	787.1
5°	888.8	888.5	884.8	878.2	867.7	849.5	845.2	830.7	811.2	792.4	773.5
7.5°	937.0	934.1	927.1	913.9	895.4	870.6	864.7	844.5	817.8	792.0	766.6
10°	972.4	970.7	955.5	937.4	913.2	885.8	878.9	856.4	827.0	794.3	762.6
12.5°	992.5	989.2	971.7	949.9	921.2	894.4	887.5	864.7	831.7	794.3	757.0
15°	991.2	988.9	971.4	947.6	918.5	895.1	888.8	866.0	830.7	791.0	749.8
17.5°	964.8	965.8	950.9	927.4	903.7	885.8	880.2	859.1	824.1	784.4	741.2
20°	918.5	923.2	913.2	892.4	879.2	867.0	863.4	845.5	813.8	774.9	731.9
22.5°	872.3	876.6	872.6	855.1	853.1	845.9	843.9	831.0	804.9	768.9	726.3
25°	838.3	842.2	841.6	826.4	832.3	832.0	830.3	824.1	802.9	768.9	727.3
27.5°	829.0	830.3	829.0	815.1	823.4	830.0	828.7	827.7	808.9	778.5	739.8
30°	860.7	858.7	848.5	820.4	828.0	837.3	836.0	836.6	826.7	803.6	767.9
32.5°	987.2	978.3	945.9	867.0	846.9	851.8	852.5	863.4	865.0	842.2	811.5
35°	1176.5	1166.6	1124.6	991.9	905.3	888.1	888.1	904.7	914.6	897.7	879.2
37.5°	1377.0	1366.1	1343.6	1164.9	1028.2	951.2	949.6	961.1	975.3	979.3	983.9
40°	1604.9	1593.3	1599.6	1359.1	1199.6	1060.6	1037.1	1028.8	1067.2	1092.6	1129.6
42.5°	1854.2	1848.9	1851.3	1575.5	1394.8	1224.0	1190.7	1148.1	1194.3	1239.6	1317.2
45°	2085.1	2089.7	2087.4	1807.0	1612.1	1423.5	1388.2	1305.6	1350.9	1428.5	1555.0
47.5°	2287.2	2268.1	2297.8	2060.0	1855.6	1646.8	1603.2	1492.6	1538.5	1634.3	1848.3
50°	2532.6	2530.0	2486.4	2397.6	2149.8	1871.1	1813.9	1685.8	1757.1	1890.2	2217.9
52.5°	2790.6	2742.7	2702.7	2660.1	2462.0	2101.0	2030.9	1878.3	2014.1	2181.5	2668.4
55°	2843.4	2822.0	2871.5	2943.2	2762.9	2339.8	2258.2	2119.8	2303.4	2514.5	3187.9
57.5°	2956.4	2956.1	3058.5	3186.3	3072.7	2593.1	2510.8	2411.4	2628.8	2896.0	3739.5
60°	3032.7	3054.2	3244.4	3492.5	3376.9	2885.7	2810.1	2748.0	2998.7	3322.4	4253.4
62.5°	3072.7	3101.7	3361.3	3616.6	3806.9	3372.9	3297.3	3207.8	3488.2	3790.0	4554.0
65°	2906.5	2963.7	3343.2	3724.0	4183.4	4162.6	4128.6	3971.4	4100.2	4159.6	4445.3
67.5°	2446.8	2505.2	2947.2	3623.9	4452.3	4924.3	4931.5	4663.0	4476.7	4191.3	3737.5
70°	1743.3	1789.2	2154.8	3038.3	4247.5	5422.0	5446.8	4981.7	4401.7	3717.1	2611.3
72.5°	827.7	855.8	1201.9	1977.4	3370.6	4967.9	5015.7	4574.8	3742.8	2752.0	1424.5
75°	304.2	312.8	406.3	841.2	1955.0	3663.5	3720.0	3279.4	2481.1	1370.0	542.7
77.5°	182.3	187.9	227.9	355.1	768.9	2094.0	2177.6	1783.6	1084.3	510.0	266.9
80°	127.5	131.5	163.5	221.0	363.3	798.0	872.3	728.0	432.0	322.7	194.2
82.5°	86.2	88.2	114.9	149.3	241.4	285.0	307.5	323.7	291.3	240.1	123.2
85°	56.5	58.5	77.9	98.4	153.6	147.3	150.6	190.6	212.7	163.2	68.4
87.5°	32.4	33.7	46.9	52.5	75.3	62.4	63.1	100.4	136.1	110.0	41.6
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°	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7
2.5°	784.8	780.5	770.9	764.9	759.3	758.0	755.7	755.4	755.0	755.0	754.0
5°	767.3	760.0	745.1	736.9	729.9	729.3	728.9	730.6	731.3	731.9	730.9
7.5°	756.0	746.1	727.6	715.7	707.5	705.5	708.8	716.4	721.3	723.3	722.3
10°	749.1	736.9	715.4	702.5	695.6	694.6	698.9	707.8	718.0	722.0	721.7
12.5°	741.2	727.3	704.5	691.0	687.0	689.0	694.6	702.9	713.4	719.7	720.0
15°	733.2	717.1	693.6	681.7	680.1	682.7	688.0	694.3	702.5	708.8	709.5
17.5°	723.7	706.8	683.4	671.1	669.8	671.1	671.5	674.8	680.1	686.0	687.7
20°	713.4	696.2	671.8	659.6	653.6	648.4	642.4	643.1	644.7	650.7	652.0
22.5°	706.2	689.0	662.9	646.0	630.2	614.3	602.4	600.8	601.5	606.4	608.1
25°	706.8	688.6	660.6	631.5	596.8	571.4	555.5	552.9	552.6	556.2	558.5
27.5°	719.7	701.5	669.2	616.6	560.5	522.8	506.0	504.0	501.4	502.4	505.0
30°	748.4	731.6	690.0	601.5	521.2	475.3	457.8	455.8	452.2	450.5	452.5
32.5°	795.3	781.5	720.4	586.9	481.9	434.7	416.8	412.5	410.2	408.2	409.9
35°	873.3	867.3	761.0	571.1	447.2	403.3	387.1	380.5	377.2	380.8	383.5
37.5°	995.5	998.8	814.2	546.3	420.5	382.5	368.9	361.3	356.4	359.4	362.3
40°	1168.6	1170.9	872.9	511.3	397.3	370.3	355.7	348.8	341.8	336.6	336.2
42.5°	1395.8	1372.3	930.7	473.3	370.6	362.7	346.5	337.9	327.3	312.8	309.8
45°	1665.3	1583.1	974.7	429.7	340.5	353.4	336.2	324.3	307.8	292.0	290.3
47.5°	1975.8	1809.3	996.1	384.5	312.5	339.9	323.7	304.9	284.0	276.1	275.1
50°	2354.9	2077.8	1006.4	340.5	288.0	322.0	305.5	283.4	265.9	264.2	263.2
52.5°	2786.6	2400.9	1009.7	304.5	267.9	298.9	290.7	269.2	255.3	256.6	256.6
55°	3238.5	2734.4	964.8	278.4	249.4	275.1	280.7	263.6	252.0	257.3	259.3
57.5°	3653.3	3030.1	823.4	258.3	231.9	257.0	277.1	268.9	260.9	282.4	283.7
60°	3971.7	3204.8	615.0	240.1	219.0	250.7	286.7	289.0	291.0	342.2	349.1
62.5°	4038.4	3146.6	422.8	225.9	213.0	256.0	304.2	304.5	302.2	337.9	342.2
65°	3732.2	2779.0	307.5	218.0	208.1	265.6	319.1	312.1	296.9	324.0	316.1
67.5°	2964.0	2093.7	256.0	212.0	200.8	264.9	334.9	319.1	294.0	317.4	304.5
70°	1923.9	1266.0	227.9	207.1	192.2	252.3	344.2	318.4	285.4	295.3	280.1
72.5°	938.7	566.1	209.1	199.8	183.3	234.8	343.8	312.5	276.5	275.8	267.5
75°	367.3	259.3	191.9	188.9	168.1	215.0	334.6	303.9	265.9	255.3	252.3
77.5°	215.0	185.0	170.1	172.7	150.0	195.2	321.0	289.0	251.3	238.8	235.5
80°	156.6	138.4	145.0	149.3	128.2	175.4	302.9	270.8	235.2	241.4	236.8
82.5°	100.4	89.2	117.6	121.9	106.7	155.2	283.1	251.7	212.4	192.9	188.3
85°	51.2	56.5	87.5	92.8	82.2	127.5	258.9	226.2	186.6	160.5	163.2
87.5°	28.7	38.6	55.8	62.4	58.1	98.1	210.1	186.6	152.3	123.9	109.0
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)