

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: P192339

Luminaire Tested: **GLEON-AF-01-LED-E1-T4FT-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6878 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
Input Voltage (V): NR
Input Current (A_{in}): 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

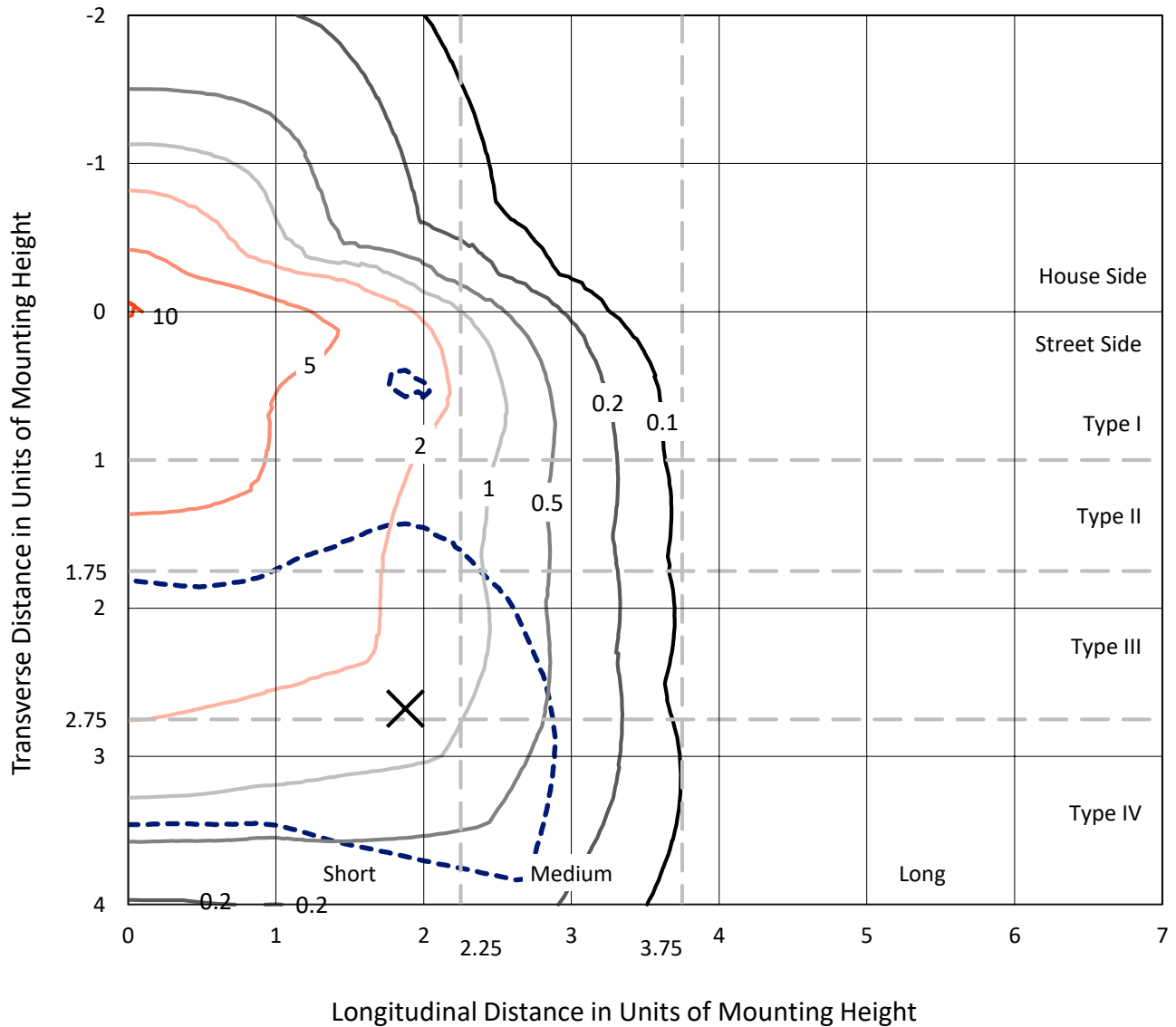


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

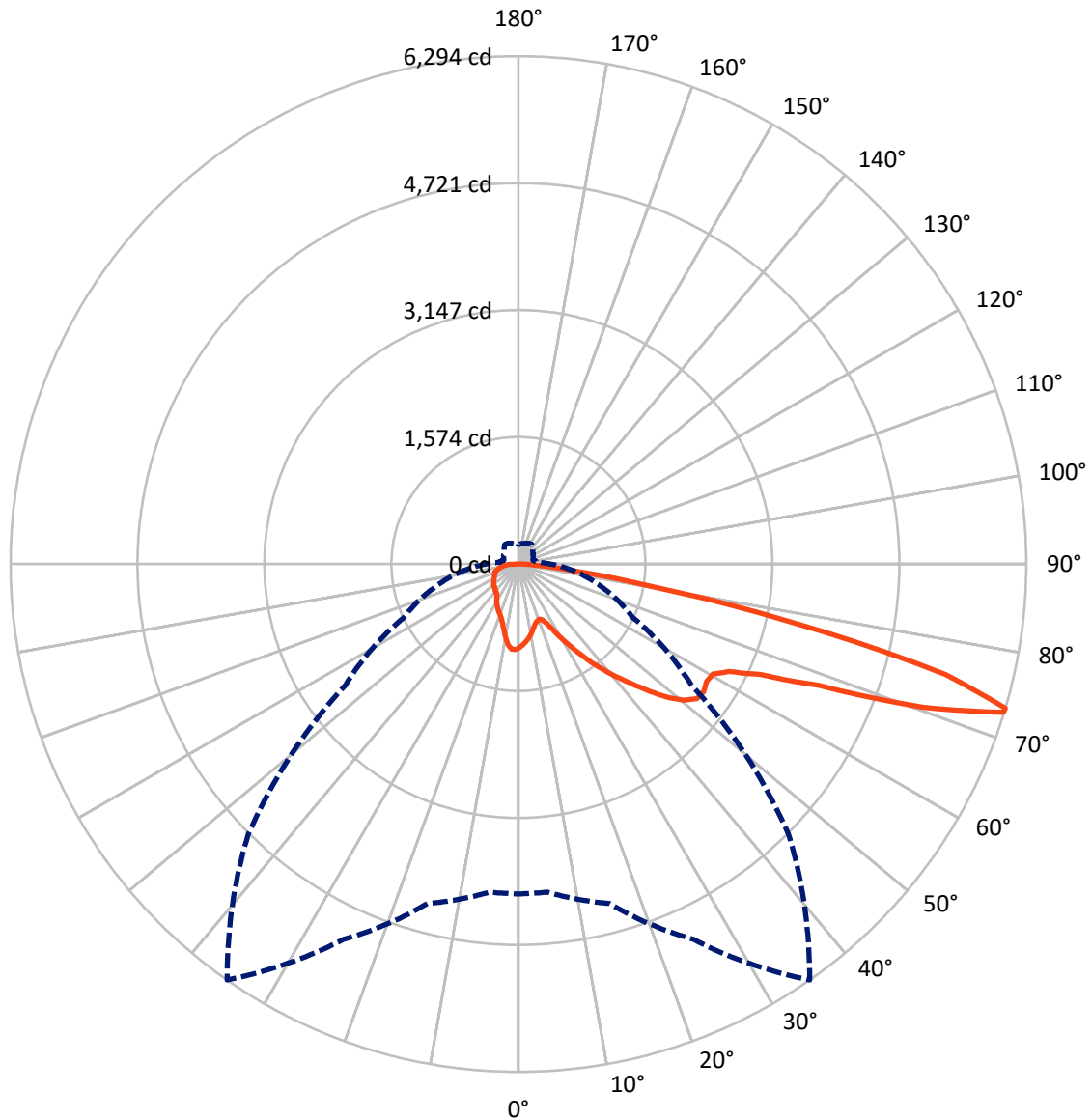


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1311.8	0.0	1311.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	5566.2	0.0	5566.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	6878.0	0.0	6878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	1.4
10°-20°	234.6	3.4
20°-30°	379.2	5.5
30°-40°	635.9	9.2
40°-50°	980.1	14.3
50°-60°	1315.0	19.1
60°-70°	1751.8	25.5
70°-80°	1336.1	19.4
80°-90°	151.4	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°	6878.0	100.0
0°-180°	6878.0	100.0

Coefficient of Utilization



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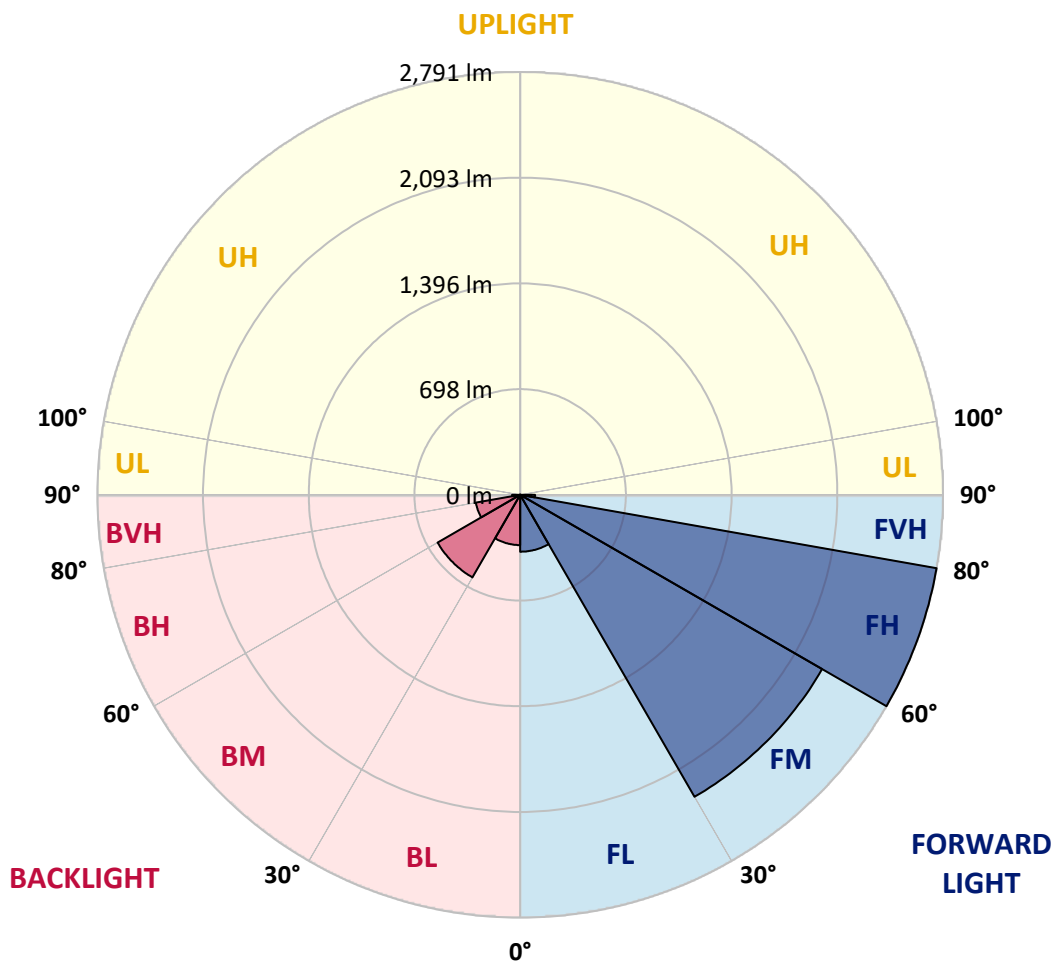
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	375.8	5.5			
FM	(30°-60°)	2301.4	33.5			
FH	(60°-80°)	2791.1	40.6			G2/5000
FVH	(80°-90°)	97.9	1.4			G1/100
BL	(0°-30°)	332.0	4.8	B1/500		
BM	(30°-60°)	629.5	9.2	B1/1000		
BH	(60°-80°)	296.8	4.3	B1/500		G1/500
BVH	(80°-90°)	53.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1
2.5°	997.1	999.1	996.8	999.8	1004.7	1010.0	1013.7	1018.9	1024.9	1033.1	1035.1
5°	950.2	953.2	953.2	958.5	968.1	976.7	984.6	993.2	1005.7	1019.9	1025.6
7.5°	898.7	900.4	903.3	911.3	925.1	937.4	948.6	962.5	979.6	998.5	1008.4
10°	836.6	838.9	843.6	854.8	873.6	890.5	906.6	925.8	947.6	971.1	983.6
12.5°	792.7	792.0	794.0	802.3	818.8	839.3	862.7	887.2	913.9	941.3	956.5
15°	777.8	774.2	766.6	764.6	773.5	794.0	821.1	851.2	883.2	916.2	935.1
17.5°	787.1	780.8	760.0	744.8	743.5	759.0	787.7	821.4	858.4	898.7	922.2
20°	845.2	830.4	779.2	743.8	731.6	739.2	764.3	800.0	843.6	897.1	927.1
22.5°	984.3	962.5	853.8	788.1	746.8	737.5	756.4	794.3	845.2	917.5	955.9
25°	1186.7	1155.7	982.0	898.4	813.2	764.0	768.3	807.2	868.7	965.1	1011.4
27.5°	1346.6	1326.4	1149.4	1054.0	934.1	835.3	806.9	839.6	916.6	1043.1	1090.3
30°	1441.7	1429.5	1328.4	1230.3	1088.3	948.9	880.9	900.4	991.5	1151.1	1190.0
32.5°	1552.0	1544.8	1495.2	1405.1	1254.8	1098.2	998.1	991.2	1091.9	1280.9	1298.7
35°	1666.3	1664.0	1634.9	1570.2	1433.5	1295.1	1153.7	1106.8	1201.3	1415.6	1404.4
37.5°	1772.7	1768.7	1751.9	1714.2	1620.4	1506.5	1312.2	1225.4	1319.2	1544.4	1494.6
40°	1968.5	1937.5	1879.7	1851.3	1809.3	1684.5	1438.1	1336.0	1441.4	1667.3	1572.5
42.5°	2207.3	2156.8	2049.1	2010.1	2004.2	1824.9	1524.0	1443.4	1564.6	1789.2	1649.1
45°	2395.3	2347.7	2254.9	2205.7	2227.5	1952.0	1610.2	1558.0	1691.4	1917.0	1728.1
47.5°	2595.8	2521.1	2398.2	2413.1	2460.7	2072.2	1698.0	1681.2	1830.5	2060.0	1826.2
50°	2603.0	2545.9	2492.0	2580.9	2654.9	2182.9	1808.0	1810.3	2000.6	2240.0	1956.6
52.5°	2452.1	2439.9	2525.4	2665.1	2771.8	2270.4	1933.2	1943.8	2218.2	2446.8	2100.0
55°	2399.2	2385.4	2484.1	2635.7	2787.7	2342.8	2068.9	2088.1	2481.5	2664.8	2239.7
57.5°	2528.0	2497.3	2503.9	2621.8	2749.0	2422.0	2216.9	2255.6	2767.5	2855.4	2329.5
60°	2888.1	2822.3	2697.5	2694.5	2769.8	2540.9	2388.0	2435.2	3064.8	2946.5	2294.5
62.5°	3393.1	3327.3	3093.5	2941.2	2930.0	2737.1	2598.1	2610.6	3236.5	2823.0	2080.8
65°	3939.7	3880.9	3619.7	3404.6	3300.9	3062.1	2842.2	2688.9	3180.4	2483.1	1706.9
67.5°	4603.3	4540.2	4315.6	4117.1	4017.3	3586.6	3013.6	2613.9	2824.0	1923.6	1227.0
70°	5067.3	5002.9	4914.4	5075.2	5319.3	4343.3	3035.7	2309.1	2109.2	1278.6	738.5
72.5°	4461.9	4431.8	4593.4	5270.8	6287.4	4802.4	2744.1	1681.2	1225.0	678.7	427.4
73°	4088.0	4081.4	4356.9	5133.7	6294.4	4731.7	2616.2	1562.6	1050.7	600.5	390.7
75°	1846.0	1899.2	2502.9	3921.2	5468.6	3899.1	1841.4	896.4	593.5	414.8	294.9
77.5°	443.6	462.1	783.1	1862.2	3453.5	2323.6	834.3	443.3	379.5	293.0	215.3
80°	188.9	195.2	301.6	688.0	1626.0	935.7	384.5	296.9	262.6	204.4	150.9
82.5°	105.0	111.6	171.1	312.1	656.3	319.1	234.5	206.8	172.7	123.2	98.1
85°	59.5	63.1	100.1	174.4	278.1	128.2	140.4	137.4	97.4	63.4	48.2
87.5°	28.1	30.4	48.2	80.9	109.0	50.2	71.3	78.6	61.1	38.6	25.1
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°	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1
2.5°	1037.4	1043.4	1050.3	1054.0	1057.3	1061.2	1065.2	1065.2	1065.8	1066.2
5°	1030.2	1042.4	1053.3	1057.9	1058.9	1058.9	1057.9	1052.6	1048.0	1050.0
7.5°	1015.0	1032.8	1042.1	1040.4	1027.9	1013.3	1001.1	986.2	978.7	977.3
10°	993.2	1013.7	1015.3	998.8	967.8	936.7	910.9	885.8	873.9	871.0
12.5°	969.1	987.9	977.3	943.3	893.4	848.2	815.5	790.1	778.8	775.9
15°	949.6	962.5	935.7	882.2	819.5	771.6	744.5	725.6	717.7	715.4
17.5°	939.3	942.0	893.1	820.8	754.1	714.1	697.2	688.3	685.4	683.7
20°	944.3	925.8	852.5	763.6	700.5	672.5	668.5	666.2	665.5	664.5
22.5°	969.1	920.9	815.2	709.5	653.6	641.4	644.7	644.4	643.7	643.1
25°	1013.3	925.1	778.8	657.9	614.3	611.7	617.6	617.6	615.0	615.0
27.5°	1071.8	934.1	738.2	609.1	578.7	579.0	583.6	582.3	579.3	577.3
30°	1143.1	939.7	690.6	565.1	545.3	544.0	545.3	539.7	530.8	530.1
32.5°	1216.1	932.7	635.5	526.2	510.0	507.0	506.0	498.1	487.8	484.9
35°	1282.2	907.3	579.3	495.1	476.3	469.7	474.3	471.7	462.4	460.1
37.5°	1330.4	860.1	528.8	467.7	452.2	450.5	453.5	454.5	443.6	441.3
40°	1362.8	796.0	485.5	444.6	447.5	441.3	431.4	424.4	421.1	420.1
42.5°	1388.9	729.3	449.2	433.7	448.5	430.4	408.9	397.7	403.6	406.3
45°	1418.9	664.2	418.8	420.1	443.6	417.8	393.4	382.5	384.8	385.4
47.5°	1460.2	584.9	386.1	398.3	427.1	409.2	383.8	368.3	357.4	352.4
50°	1517.4	491.1	352.1	373.9	410.9	403.0	368.9	352.4	332.3	327.6
52.5°	1557.0	403.6	324.0	353.4	396.3	390.4	357.0	335.6	314.4	310.5
55°	1535.5	335.2	299.6	330.6	377.2	374.9	347.1	318.4	301.9	298.6
57.5°	1428.2	292.0	280.7	309.2	353.7	361.7	333.9	303.9	292.0	289.7
60°	1223.4	264.9	268.9	294.6	334.6	348.5	320.7	295.9	288.0	286.4
62.5°	949.3	246.7	259.9	284.1	319.7	339.2	313.4	294.9	292.0	290.0
65°	680.1	232.2	250.4	273.5	306.2	330.6	310.8	293.6	294.3	292.6
67.5°	462.1	219.3	238.8	261.6	293.0	323.0	307.2	289.0	297.3	295.3
70°	323.4	206.8	225.3	246.4	276.5	312.5	300.6	282.1	281.4	273.5
72.5°	252.3	190.2	206.8	225.3	255.3	297.6	287.4	266.5	255.6	247.4
73°	240.8	186.3	202.1	220.6	250.7	294.0	283.7	262.3	250.0	242.4
75°	199.2	169.1	183.6	200.2	230.9	276.8	265.9	242.8	227.2	222.6
77.5°	156.6	144.7	158.5	173.4	203.5	251.7	239.5	217.3	208.7	204.8
80°	115.9	119.9	132.1	145.3	176.4	224.9	214.0	191.9	230.2	220.6
82.5°	81.6	90.8	102.1	114.0	148.0	198.8	185.6	162.8	168.4	140.0
85°	48.2	59.5	70.0	80.3	106.7	164.8	153.3	129.8	106.4	101.4
87.5°	28.1	33.0	36.0	46.6	73.3	124.2	108.0	96.1	55.2	37.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)