

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: STREETWORKS

Report Number: P319015

Luminaire Tested: **GAN-SA1D-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7347 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

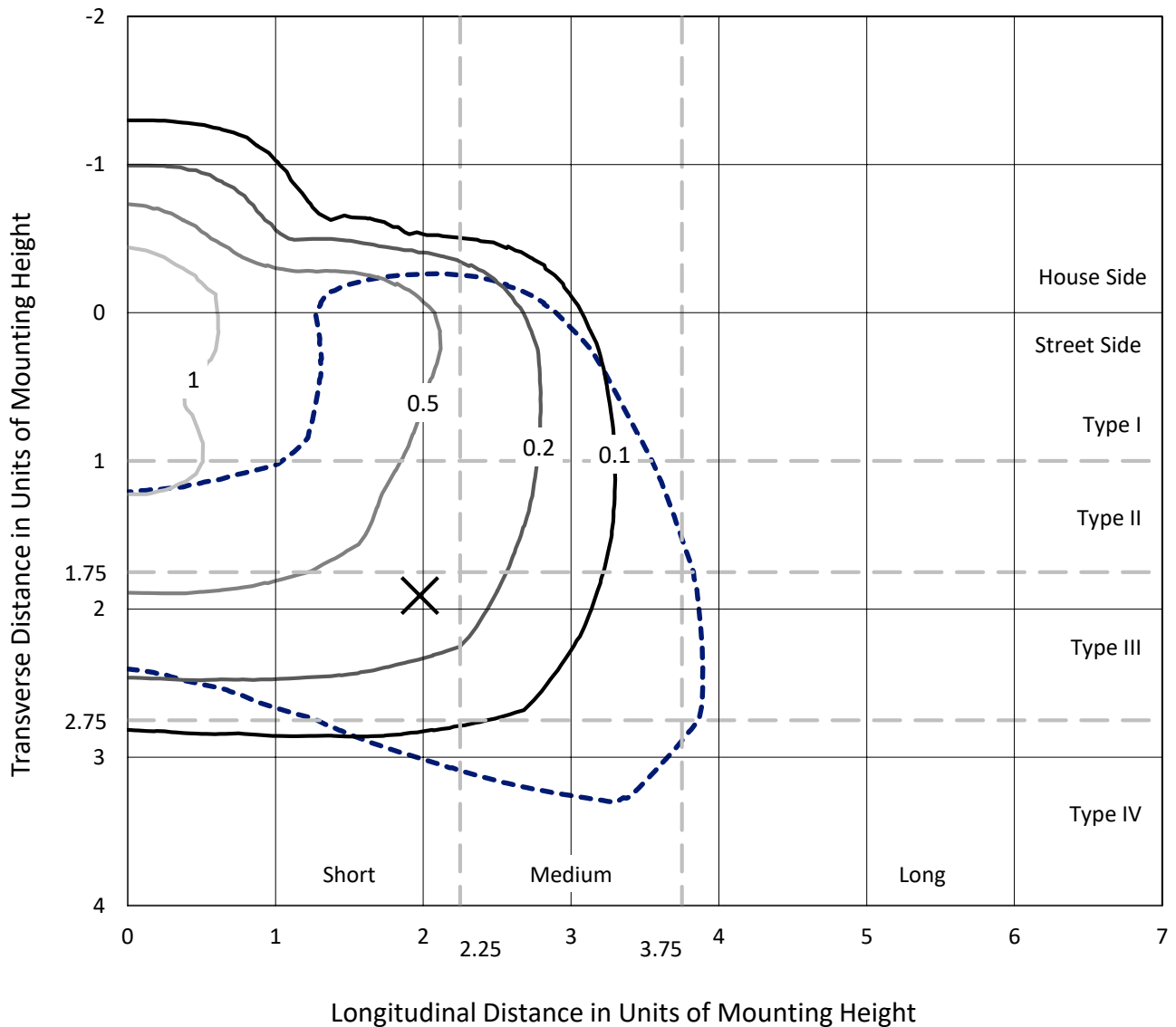
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GAN-SA1D-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

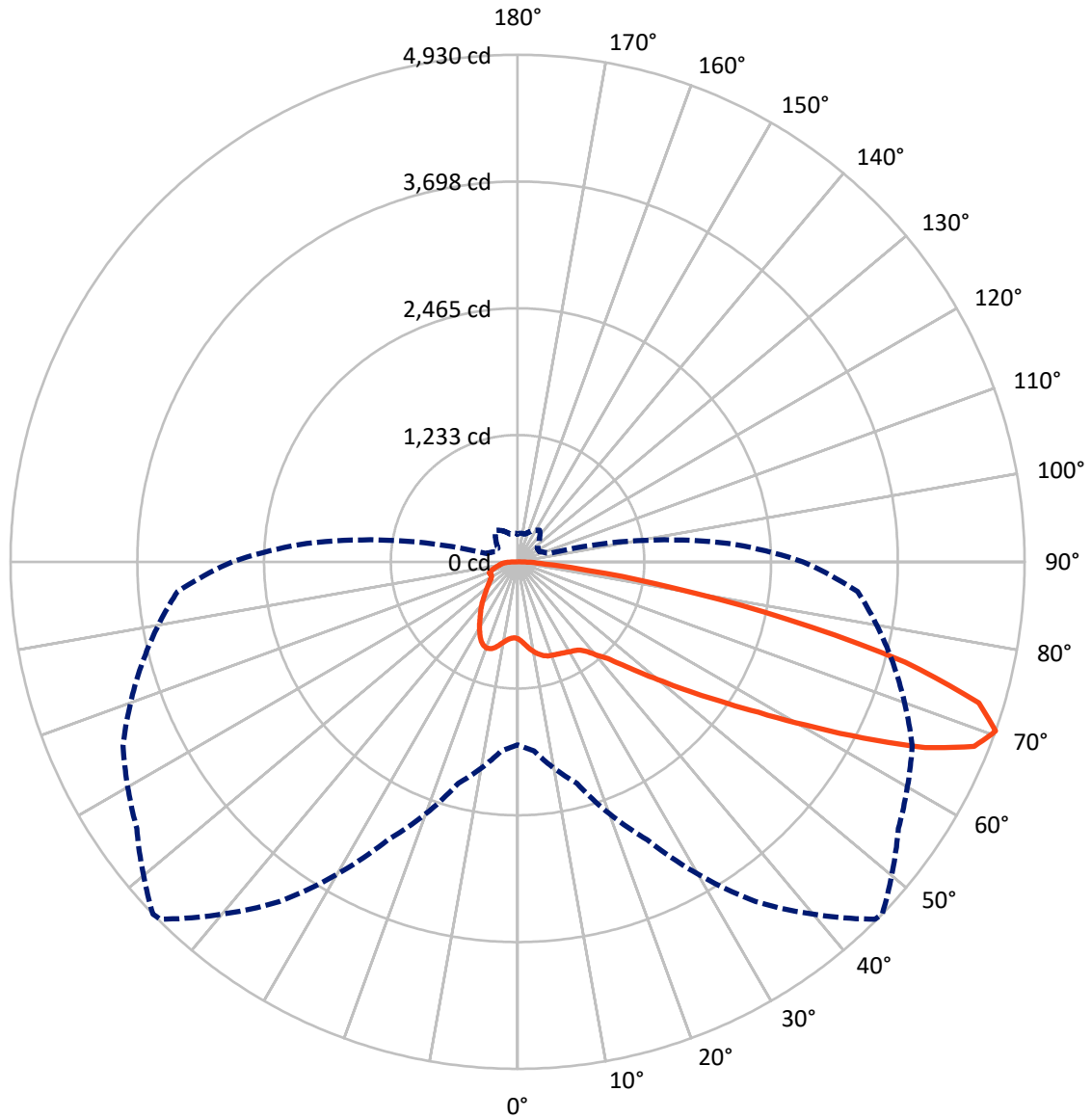
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1683.9	0.0	1683.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5663.1	0.0	5663.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	7347.0	0.0	7347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.0
10°-20°	254.2	3.5
20°-30°	423.9	5.8
30°-40°	601.5	8.2
40°-50°	884.8	12.0
50°-60°	1498.4	20.4
60°-70°	2127.0	29.0
70°-80°	1292.2	17.6
80°-90°	188.6	2.6
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°	7347.0	100.0
0°-180°	7347.0	100.0

Coefficient of Utilization

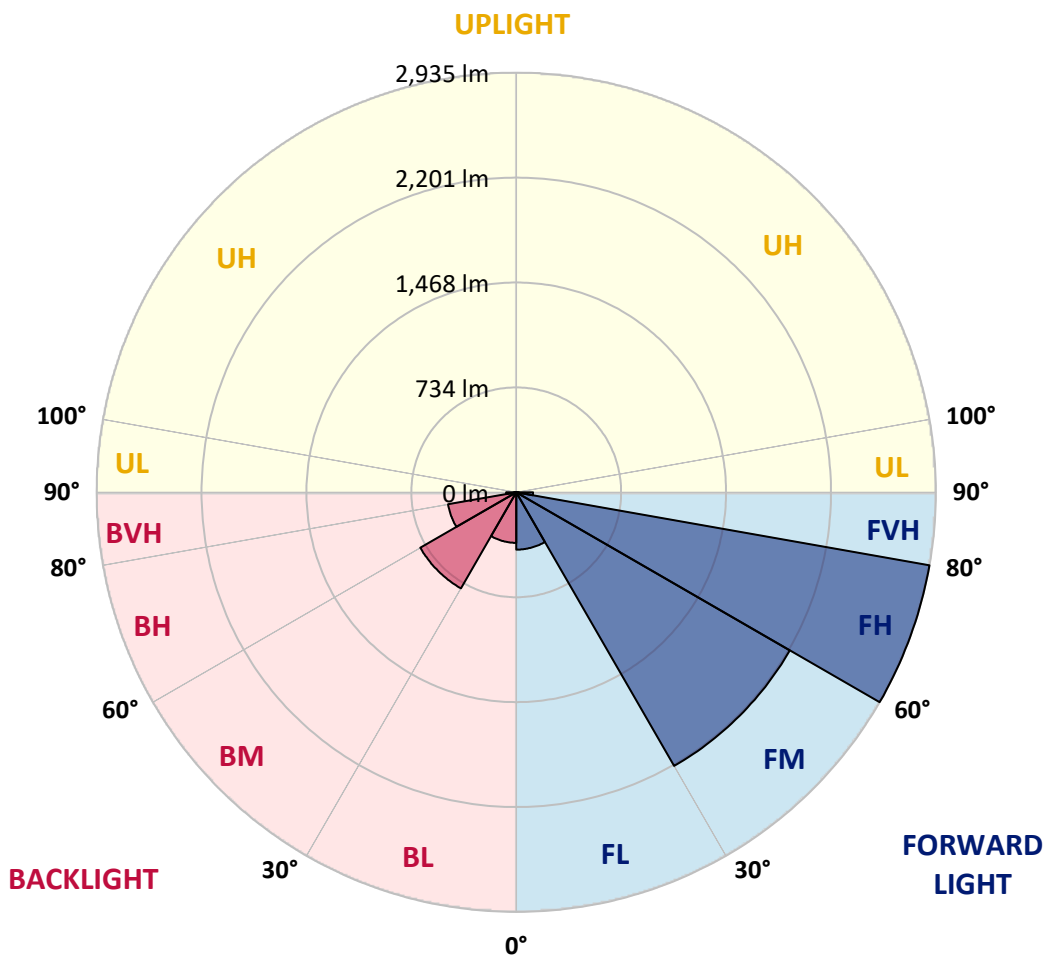


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.9	5.5			
FM (30°-60°)	2209.7	30.1			
FH (60°-80°)	2935.1	39.9			G2/5000
FVH (80°-90°)	117.5	1.6			G2/225
BL (0°-30°)	353.5	4.8	B1/500		
BM (30°-60°)	775.1	10.6	B1/1000		
BH (60°-80°)	484.1	6.6	B1/500		G1/500
BVH (80°-90°)	71.1	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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CATALOG NUMBER: GAN-SA1D-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	748.5	748.5	748.5	748.5	748.5	748.5	748.5	748.5	748.5	748.5	748.5
2.5°	786.0	786.5	787.5	785.0	777.9	775.9	775.2	767.9	763.1	756.1	750.0
5°	848.8	849.3	847.8	840.8	825.2	813.6	812.6	796.0	781.0	764.9	752.8
7.5°	914.5	915.2	910.4	897.1	875.2	855.1	853.9	831.2	808.4	784.0	765.9
10°	972.5	969.5	961.7	943.1	917.2	892.6	891.6	867.9	841.5	812.1	788.0
12.5°	1011.3	1008.7	998.7	976.1	947.7	925.0	923.0	901.1	875.5	843.3	814.4
15°	1032.6	1034.4	1020.8	995.2	967.5	948.4	946.6	931.1	908.2	875.7	842.6
17.5°	1035.4	1036.9	1023.8	998.4	975.8	962.7	962.0	951.7	935.1	903.9	869.2
20°	1019.3	1020.3	1009.5	988.6	973.8	969.8	969.5	965.0	952.7	925.0	891.3
22.5°	995.9	996.7	988.9	973.8	968.8	975.1	976.8	975.1	966.3	940.4	908.7
25°	990.1	989.6	981.6	966.3	970.5	983.9	986.1	986.9	980.8	958.2	930.8
27.5°	1018.1	1016.3	1001.0	976.3	979.1	995.2	998.2	1005.5	1001.7	981.8	955.9
30°	1098.8	1095.7	1064.3	1014.5	1001.0	1009.3	1013.0	1024.6	1025.3	1008.7	989.4
32.5°	1235.0	1231.3	1174.9	1085.9	1037.9	1023.6	1027.1	1044.5	1053.8	1040.9	1020.1
35°	1407.3	1403.0	1329.1	1207.4	1099.8	1051.0	1053.5	1067.3	1085.9	1067.8	1040.2
37.5°	1586.8	1576.5	1505.3	1350.2	1198.1	1109.6	1109.6	1111.3	1120.1	1082.4	1063.8
40°	1765.3	1755.0	1690.6	1518.2	1325.3	1201.8	1196.1	1157.1	1150.1	1117.6	1111.3
42.5°	1931.3	1928.2	1890.3	1708.0	1474.7	1292.6	1284.6	1218.4	1220.0	1199.8	1200.1
45°	2107.8	2107.8	2076.8	1899.6	1648.6	1438.4	1430.4	1333.1	1348.2	1338.9	1361.3
47.5°	2251.8	2256.4	2252.1	2099.2	1851.0	1623.8	1609.2	1492.0	1534.2	1566.2	1631.3
50°	2398.9	2406.0	2406.7	2318.2	2095.7	1844.0	1827.4	1703.0	1797.2	1888.8	2016.7
52.5°	2612.4	2628.2	2565.1	2536.7	2395.4	2105.5	2089.2	1974.3	2131.6	2260.1	2480.6
55°	2810.3	2796.4	2751.4	2769.0	2716.2	2403.2	2390.9	2290.1	2504.3	2671.2	2957.6
57.5°	2917.4	2916.4	2961.6	3037.1	3062.2	2770.3	2760.0	2661.9	2924.4	3049.9	3405.4
60°	3043.1	3044.9	3157.0	3328.2	3431.8	3227.4	3222.9	3148.4	3332.5	3403.4	3756.7
62.5°	3060.7	3092.4	3285.5	3580.2	3777.8	3761.4	3771.5	3586.7	3697.6	3685.5	4018.9
65°	2858.3	2900.0	3249.5	3656.3	4121.7	4345.5	4354.8	4027.5	3985.5	3926.6	4112.7
67.5°	2443.4	2505.3	2884.9	3490.6	4235.1	4777.2	4790.3	4369.1	4224.3	4008.3	3886.9
70°	1778.1	1846.8	2229.0	2981.2	4033.0	4915.3	4930.1	4520.3	4233.4	3775.8	3318.2
72.5°	1074.1	1127.9	1443.0	2194.8	3403.9	4663.8	4690.2	4328.7	3865.0	3198.2	2450.2
75°	471.7	506.9	697.7	1264.7	2436.9	3858.7	3891.7	3705.1	3140.4	2324.2	1448.3
77.5°	200.9	211.0	286.1	549.4	1377.6	2636.8	2682.0	2707.2	2130.6	1264.7	612.0
80°	125.2	129.2	161.9	248.7	644.7	1480.9	1529.7	1592.8	1058.0	464.9	213.7
82.5°	76.2	80.7	107.6	150.4	335.7	671.3	694.7	739.2	410.6	200.9	110.6
85°	45.8	49.0	65.9	95.0	191.1	264.0	263.8	291.7	193.4	129.2	58.3
87.5°	21.9	24.4	35.2	49.3	96.3	99.1	92.8	105.1	117.4	84.7	29.4
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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 CATALOG NUMBER: GAN-SA1D-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	748.5	748.5	748.5	748.5	748.5	748.5	748.5	748.5	748.5	748.5	748.5
2.5°	748.0	747.0	743.7	741.2	740.7	739.2	738.0	738.7	739.7	740.0	740.0
5°	747.8	745.0	740.7	739.0	741.2	744.2	748.0	753.0	756.1	758.3	759.8
7.5°	759.8	754.5	749.8	748.8	753.3	761.3	769.9	780.4	787.7	792.8	793.8
10°	779.9	773.4	768.6	769.6	777.7	789.2	801.3	814.9	826.0	832.7	833.2
12.5°	803.1	796.8	792.3	796.5	809.9	823.9	836.5	848.3	858.4	865.2	865.2
15°	829.7	825.2	819.9	829.7	847.8	860.4	865.7	871.5	877.0	882.0	881.0
17.5°	855.4	851.1	848.3	859.9	878.8	884.5	881.0	876.7	876.7	879.5	880.0
20°	877.5	873.7	875.5	886.8	896.6	890.6	877.5	863.9	858.4	859.9	861.4
22.5°	896.9	895.1	900.4	905.7	898.6	877.5	853.4	835.0	828.2	827.7	828.2
25°	919.5	919.2	925.8	916.2	885.0	846.1	813.6	795.8	792.0	795.0	800.1
27.5°	947.7	950.4	953.7	918.7	857.4	798.6	765.6	753.3	757.1	764.4	769.1
30°	983.6	991.1	984.1	912.4	817.7	744.2	712.8	709.3	719.6	729.9	734.9
32.5°	1018.6	1030.4	1013.3	896.1	766.4	686.7	662.3	661.3	673.8	683.9	690.9
35°	1046.7	1070.1	1035.1	863.7	707.0	633.6	615.8	609.0	613.5	625.3	633.4
37.5°	1083.4	1122.4	1050.2	814.1	642.7	589.9	569.0	553.4	549.4	554.2	558.2
40°	1150.6	1202.1	1057.3	745.0	579.8	546.1	525.0	502.1	486.3	474.7	475.0
42.5°	1260.2	1305.9	1052.7	661.0	521.7	503.4	479.5	453.1	427.4	401.3	399.3
45°	1438.2	1460.3	1039.2	572.0	470.7	458.6	436.2	409.8	375.6	346.0	343.2
47.5°	1723.1	1674.0	1018.1	494.3	425.7	420.6	400.0	369.6	333.4	309.5	307.5
50°	2111.5	1982.5	1007.7	432.5	385.9	387.5	370.6	338.4	304.2	286.6	284.6
52.5°	2576.2	2341.8	1027.6	384.7	354.0	359.3	346.7	316.6	287.9	274.1	272.1
55°	3058.2	2714.0	1049.0	350.0	323.8	334.2	329.9	305.0	279.1	266.3	264.5
57.5°	3470.8	2991.8	1006.2	321.8	296.9	313.0	316.8	297.7	274.6	263.0	261.0
60°	3730.5	3103.7	894.1	295.4	275.6	296.2	309.3	295.7	276.3	275.3	273.8
62.5°	3853.7	3093.9	725.9	274.6	262.2	288.9	314.8	307.0	296.4	305.5	306.2
65°	3798.4	2946.0	540.6	260.7	252.7	291.7	331.4	328.4	302.2	311.3	312.5
67.5°	3434.3	2593.3	400.3	248.7	242.1	299.5	361.6	335.4	290.9	297.4	293.4
70°	2775.8	2056.0	308.8	235.1	231.3	298.5	375.1	331.1	278.6	280.1	269.3
72.5°	1914.2	1402.0	251.2	222.5	215.7	272.1	365.6	320.6	268.3	256.7	242.4
75°	1040.9	752.5	213.5	209.4	188.3	238.9	348.0	313.0	259.0	243.6	235.6
77.5°	409.6	312.3	185.3	191.6	164.7	211.0	328.4	298.7	246.2	226.0	222.0
80°	167.2	159.4	153.6	165.7	141.6	184.6	304.7	281.9	230.8	209.7	201.6
82.5°	94.8	99.1	119.4	130.7	114.9	170.0	293.4	268.3	212.5	187.8	178.3
85°	48.5	58.1	83.2	93.8	84.5	144.6	270.3	234.8	170.5	143.8	144.6
87.5°	23.4	32.4	52.5	58.8	54.8	104.6	201.9	170.2	132.8	105.1	101.8
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)