

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: P268319

Luminaire Tested: **GAN-AF-02-LED-U-T4W-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268319
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: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T4W-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8488.8 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - 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: 28.75 FT

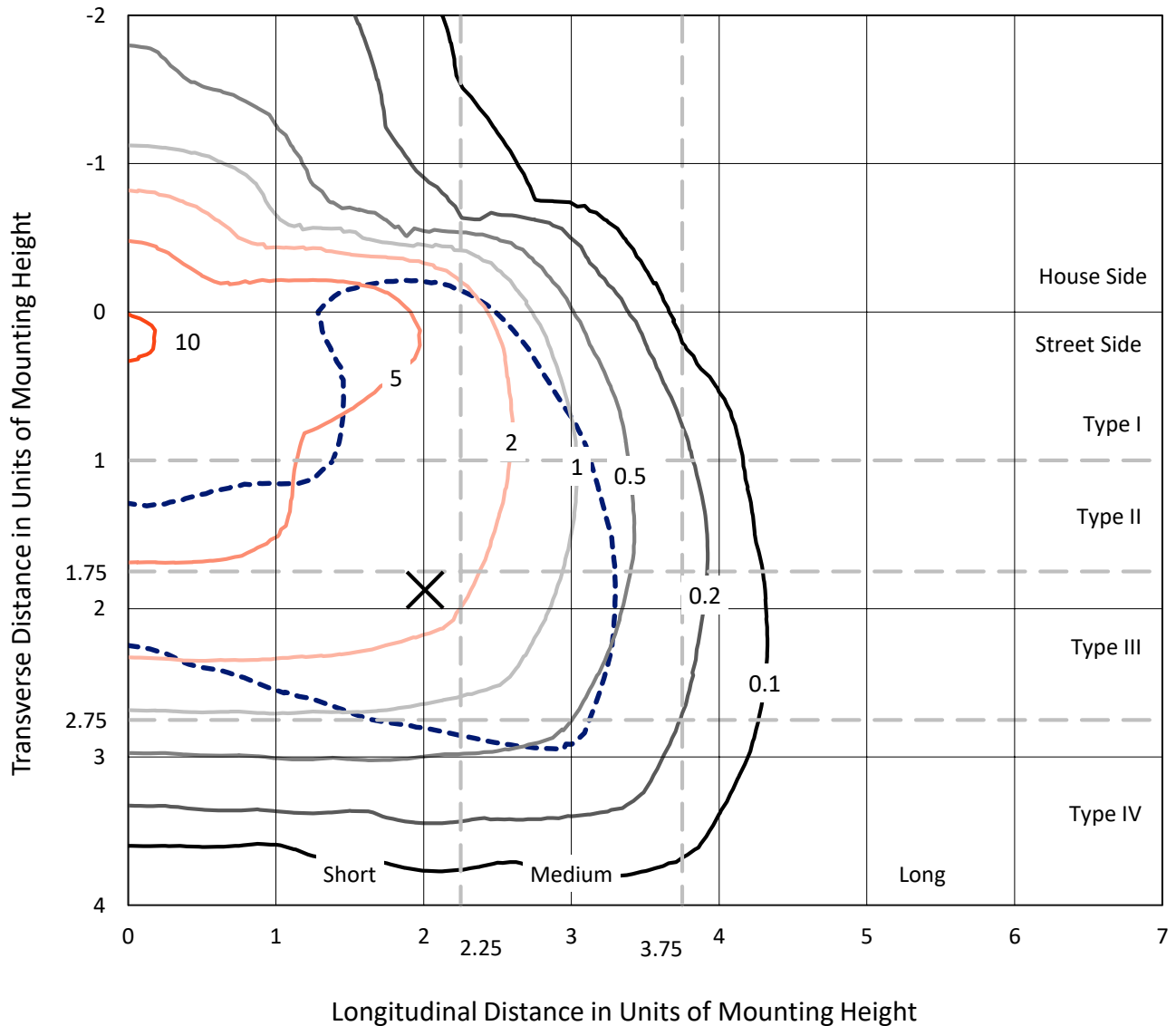


REPORT NUMBER: P268319

CATALOG NUMBER: GAN-AF-02-LED-U-T4W-7027-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

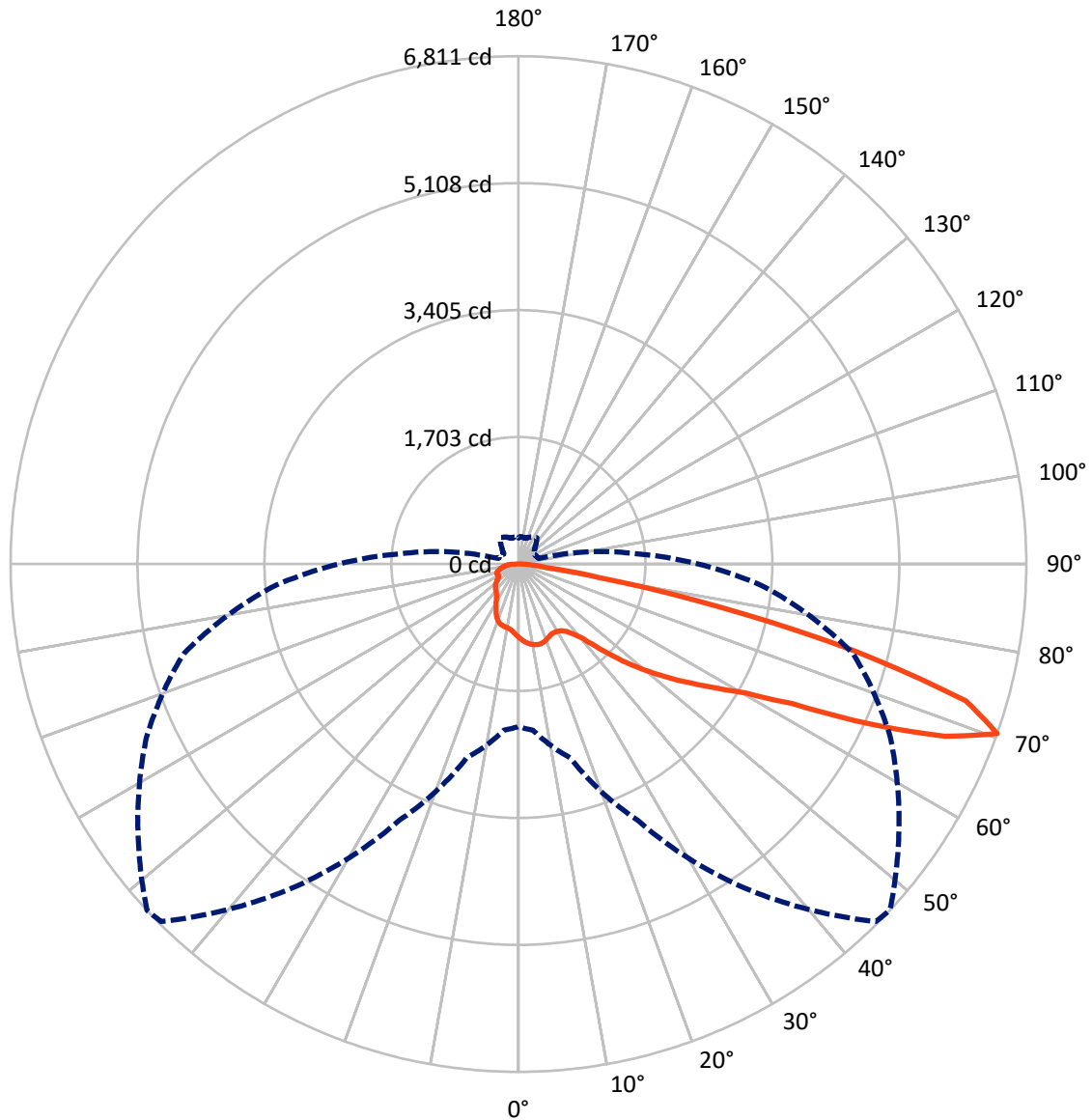


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P268319

CATALOG NUMBER: GAN-AF-02-LED-U-T4W-7027-800

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GAN-AF-02-LED-U-T4W-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1771.0	0.0	1771.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	6717.9	0.0	6717.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	8488.8	0.0	8488.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	1.1
10°-20°	276.9	3.3
20°-30°	408.9	4.8
30°-40°	594.3	7.0
40°-50°	1069.5	12.6
50°-60°	1852.8	21.8
60°-70°	2644.5	31.2
70°-80°	1357.5	16.0
80°-90°	190.1	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°	8488.8	100.0
0°-180°	8488.8	100.0

Coefficient of Utilization



REPORT NUMBER: P268319

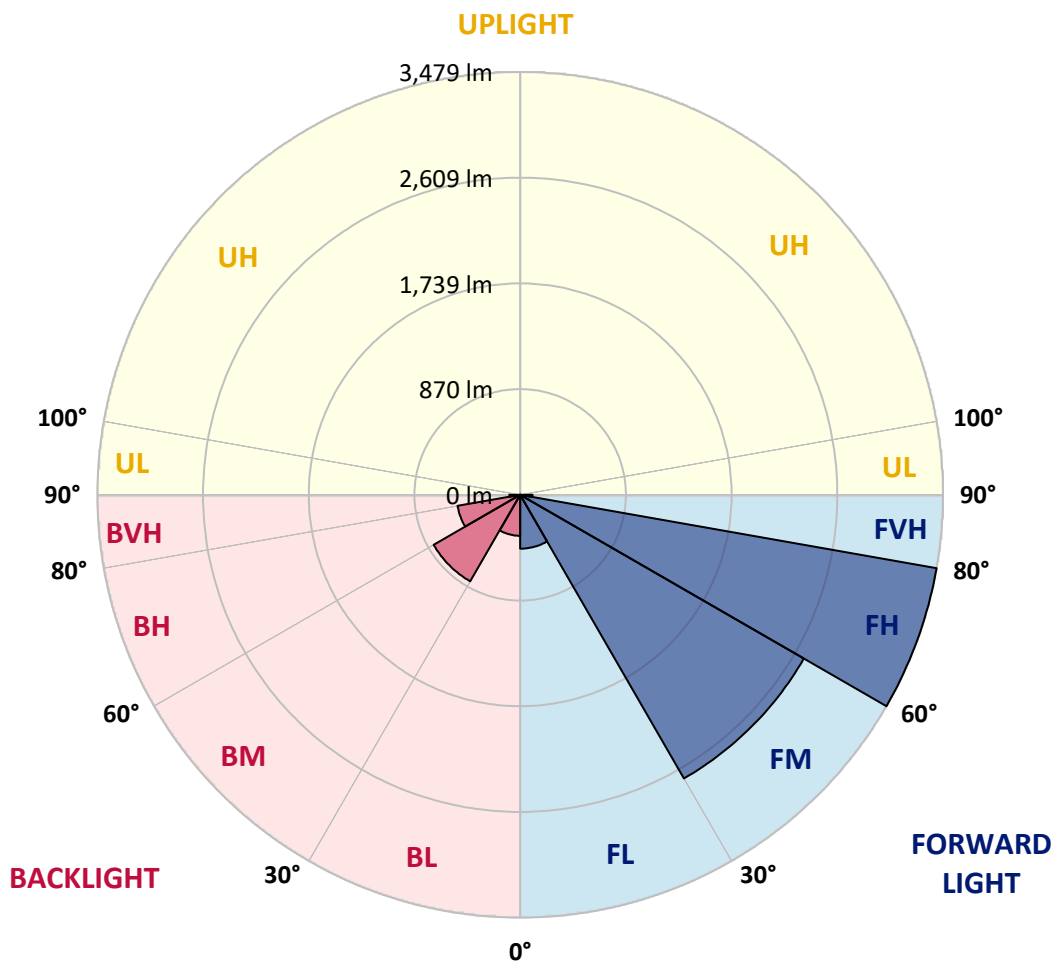
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	442.9	5.2			
FM	(30°-60°)	2694.6	31.7			
FH	(60°-80°)	3479.0	41.0			G2/5000
FVH	(80°-90°)	101.4	1.2			G2/225
BL	(0°-30°)	337.2	4.0	B1/500		
BM	(30°-60°)	822.0	9.7	B1/1000		
BH	(60°-80°)	523.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	88.6	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





REPORT NUMBER: P268319

CATALOG NUMBER: GAN-AF-02-LED-U-T4W-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0
2.5°	1042.8	1040.7	1039.9	1038.3	1036.1	1025.9	1023.8	1016.3	1006.0	995.3	984.2
5°	1111.4	1110.9	1106.4	1098.1	1085.0	1062.2	1056.9	1038.7	1014.2	990.7	967.3
7.5°	1171.6	1167.9	1159.3	1142.7	1119.6	1088.7	1081.2	1056.0	1022.5	990.3	958.5
10°	1215.9	1213.8	1194.7	1172.1	1141.8	1107.6	1098.9	1070.9	1034.0	993.3	953.6
12.5°	1241.0	1236.8	1215.0	1187.7	1151.7	1118.4	1109.6	1081.2	1039.9	993.3	946.5
15°	1239.4	1236.4	1214.6	1184.9	1148.6	1119.2	1111.4	1082.8	1038.7	989.2	937.6
17.5°	1206.3	1207.6	1188.9	1159.6	1129.9	1107.6	1100.7	1074.2	1030.4	980.8	926.7
20°	1148.6	1154.3	1141.8	1115.9	1099.3	1084.1	1079.6	1057.2	1017.6	968.8	915.2
22.5°	1090.7	1096.0	1091.1	1069.3	1066.7	1057.7	1055.1	1039.1	1006.5	961.5	908.1
25°	1048.1	1053.2	1052.3	1033.3	1040.7	1040.2	1038.3	1030.4	1003.9	961.5	909.4
27.5°	1036.6	1038.3	1036.6	1019.2	1029.5	1037.8	1036.1	1034.9	1011.4	973.5	925.1
30°	1076.2	1073.7	1061.0	1025.9	1035.3	1047.0	1045.3	1046.0	1033.7	1004.8	960.2
32.5°	1234.5	1223.2	1182.8	1084.1	1058.9	1065.1	1065.8	1079.6	1081.6	1053.2	1014.6
35°	1471.1	1458.7	1406.1	1240.2	1132.0	1110.6	1110.6	1131.1	1143.5	1122.5	1099.3
37.5°	1721.7	1708.0	1680.0	1456.6	1285.7	1189.4	1187.3	1201.8	1219.5	1224.5	1230.3
40°	2006.8	1992.3	2000.0	1699.5	1500.0	1326.1	1296.8	1286.5	1334.3	1366.1	1412.5
42.5°	2318.4	2311.9	2314.8	1970.0	1744.0	1530.5	1488.9	1435.5	1493.3	1549.9	1647.0
45°	2607.2	2613.0	2610.0	2259.4	2015.7	1779.9	1735.7	1632.5	1689.2	1786.2	1944.3
47.5°	2859.9	2835.9	2873.0	2575.8	2320.1	2059.2	2004.7	1866.3	1923.7	2043.5	2311.1
50°	3166.7	3163.6	3108.9	2997.9	2688.1	2339.5	2268.1	2107.9	2197.1	2363.5	2773.2
52.5°	3489.2	3429.4	3379.5	3326.2	3078.4	2627.1	2539.5	2348.7	2518.4	2727.8	3336.6
55°	3555.4	3528.5	3590.4	3680.0	3454.6	2925.6	2823.6	2650.4	2880.1	3144.1	3986.0
57.5°	3696.6	3696.3	3824.3	3984.1	3842.1	3242.3	3139.4	3015.3	3287.0	3621.1	4675.8
60°	3792.0	3818.9	4056.7	4366.9	4222.4	3608.2	3513.7	3436.0	3749.4	4154.2	5318.4
62.5°	3842.1	3878.3	4202.9	4522.2	4760.1	4217.5	4122.9	4010.9	4361.5	4739.0	5694.3
65°	3634.3	3705.7	4180.3	4656.5	5230.9	5204.9	5162.3	4965.7	5126.7	5201.1	5558.4
67.5°	3059.4	3132.5	3685.0	4531.3	5567.1	6157.3	6166.2	5830.4	5597.6	5240.8	4673.3
70°	2179.7	2237.0	2694.2	3799.0	5311.0	6779.6	6810.5	6229.0	5503.8	4647.7	3265.1
72.5°	1034.9	1070.1	1502.9	2472.6	4214.5	6211.7	6271.5	5720.2	4679.9	3441.0	1781.2
75°	380.3	391.1	508.0	1051.8	2444.5	4580.8	4651.5	4100.6	3102.3	1713.1	678.5
77.5°	228.0	234.9	284.9	443.9	961.5	2618.3	2722.9	2230.1	1355.8	637.6	333.7
80°	159.4	164.4	204.5	276.3	454.4	997.7	1090.7	910.3	540.2	403.5	242.8
82.5°	107.7	110.2	143.6	186.7	301.9	356.4	384.5	404.7	364.3	300.3	154.0
85°	70.6	73.1	97.5	123.1	192.1	184.2	188.4	238.3	266.0	204.1	85.5
87.5°	40.5	42.1	58.7	65.7	94.1	78.1	79.0	125.6	170.1	137.5	52.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P268319

CATALOG NUMBER: GAN-AF-02-LED-U-T4W-7027-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0
2.5°	981.3	975.9	963.9	956.4	949.5	947.8	944.8	944.5	944.1	944.1	942.9
5°	959.4	950.2	931.7	921.4	912.7	911.9	911.5	913.5	914.4	915.2	913.9
7.5°	945.3	932.9	909.9	894.9	884.7	882.1	886.3	895.8	902.0	904.5	903.2
10°	936.7	921.4	894.5	878.5	869.7	868.5	874.0	885.0	897.9	902.7	902.3
12.5°	926.7	909.4	880.9	864.0	859.0	861.5	868.5	878.8	892.0	899.9	900.3
15°	916.8	896.6	867.3	852.4	850.3	853.6	860.2	868.1	878.5	886.3	887.0
17.5°	904.9	883.8	854.5	839.1	837.5	839.1	839.6	843.7	850.3	857.8	859.9
20°	892.0	870.5	840.0	824.7	817.3	810.7	803.3	804.2	806.1	813.5	815.2
22.5°	882.9	861.5	828.9	807.8	788.0	768.1	753.3	751.3	752.1	758.2	760.3
25°	883.8	861.0	826.0	789.6	746.2	714.4	694.6	691.3	690.9	695.5	698.3
27.5°	899.9	877.1	836.7	771.0	700.9	653.7	632.6	630.3	626.8	628.2	631.5
30°	935.9	914.7	862.7	752.1	651.7	594.3	572.4	570.0	565.4	563.2	565.8
32.5°	994.5	977.1	900.7	733.8	602.6	543.5	521.1	515.8	512.9	510.4	512.6
35°	1091.9	1084.6	951.6	714.1	559.1	504.3	484.0	475.7	471.6	476.2	479.4
37.5°	1244.7	1248.9	1018.0	683.2	525.7	478.3	461.3	451.8	445.6	449.3	453.0
40°	1461.2	1464.1	1091.5	639.4	496.9	462.9	444.8	436.0	427.5	420.9	420.4
42.5°	1745.2	1715.9	1163.8	591.9	463.3	453.5	433.3	422.6	409.3	391.1	387.3
45°	2082.4	1979.4	1218.7	537.2	425.7	441.8	420.4	405.6	385.0	365.2	363.1
47.5°	2470.5	2262.3	1245.6	480.8	390.8	425.0	404.7	381.2	355.2	345.3	344.1
50°	2944.6	2598.1	1258.3	425.7	360.1	402.7	382.0	354.3	332.5	330.3	329.1
52.5°	3484.3	3002.0	1262.5	380.8	335.0	373.8	363.5	336.5	319.3	320.9	320.9
55°	4049.3	3419.0	1206.3	348.2	311.8	344.1	351.1	329.6	315.1	321.8	324.2
57.5°	4568.1	3788.7	1029.5	322.9	290.0	321.4	346.4	336.1	326.3	353.2	354.7
60°	4966.1	4007.2	768.9	300.3	273.9	313.5	358.5	361.4	363.9	427.9	436.5
62.5°	5049.6	3934.4	528.7	282.4	266.3	320.1	380.3	380.8	377.8	422.6	427.9
65°	4666.8	3474.9	384.5	272.5	260.1	332.1	398.9	390.3	371.3	405.1	395.3
67.5°	3706.1	2617.9	320.1	265.1	251.0	331.3	418.8	398.9	367.5	397.0	380.8
70°	2405.7	1583.0	284.9	258.9	240.3	315.6	430.3	398.0	356.8	369.3	350.2
72.5°	1173.6	707.9	261.4	249.9	229.2	293.7	429.8	390.8	345.7	344.8	334.4
75°	459.3	324.2	239.9	236.3	210.3	268.9	418.3	380.0	332.5	319.3	315.6
77.5°	268.9	231.3	212.7	216.0	187.4	244.1	401.5	361.4	314.2	298.5	294.5
80°	195.7	173.1	181.3	186.7	160.3	219.2	378.7	338.7	294.0	301.9	296.1
82.5°	125.6	111.5	147.1	152.4	133.4	194.2	353.9	314.6	265.5	241.1	235.4
85°	64.0	70.6	109.5	116.1	102.9	159.4	323.7	282.8	233.3	200.7	204.1
87.5°	35.9	48.2	69.8	78.1	72.8	122.7	262.7	233.3	190.4	154.9	136.4
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)