

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: P193269

Luminaire Tested: **GAN-AF-01-LED-U-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193269
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: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-T4FT-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 6063.9 lumens
Efficiency: N/A
Efficacy: 102.8 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

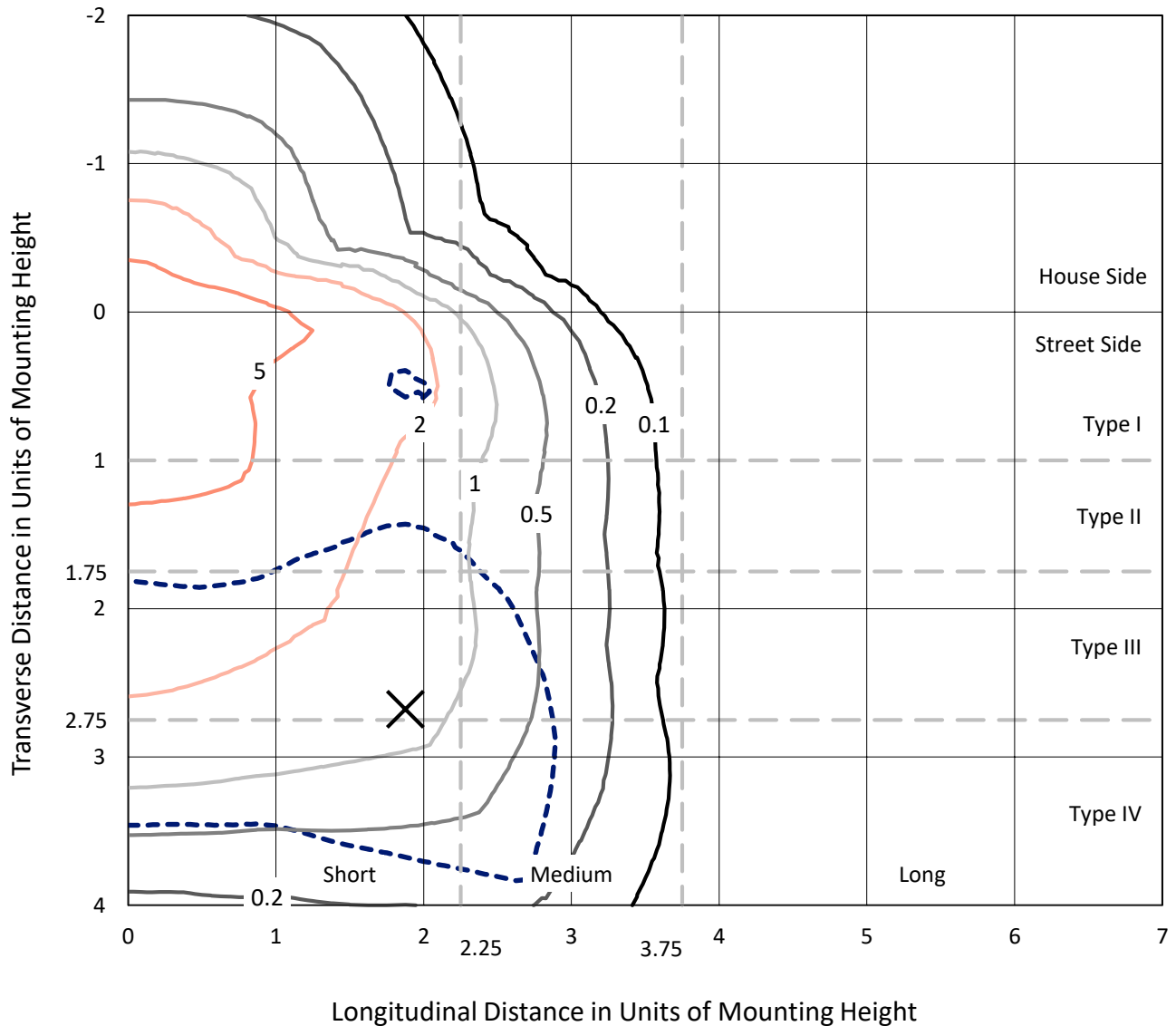
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

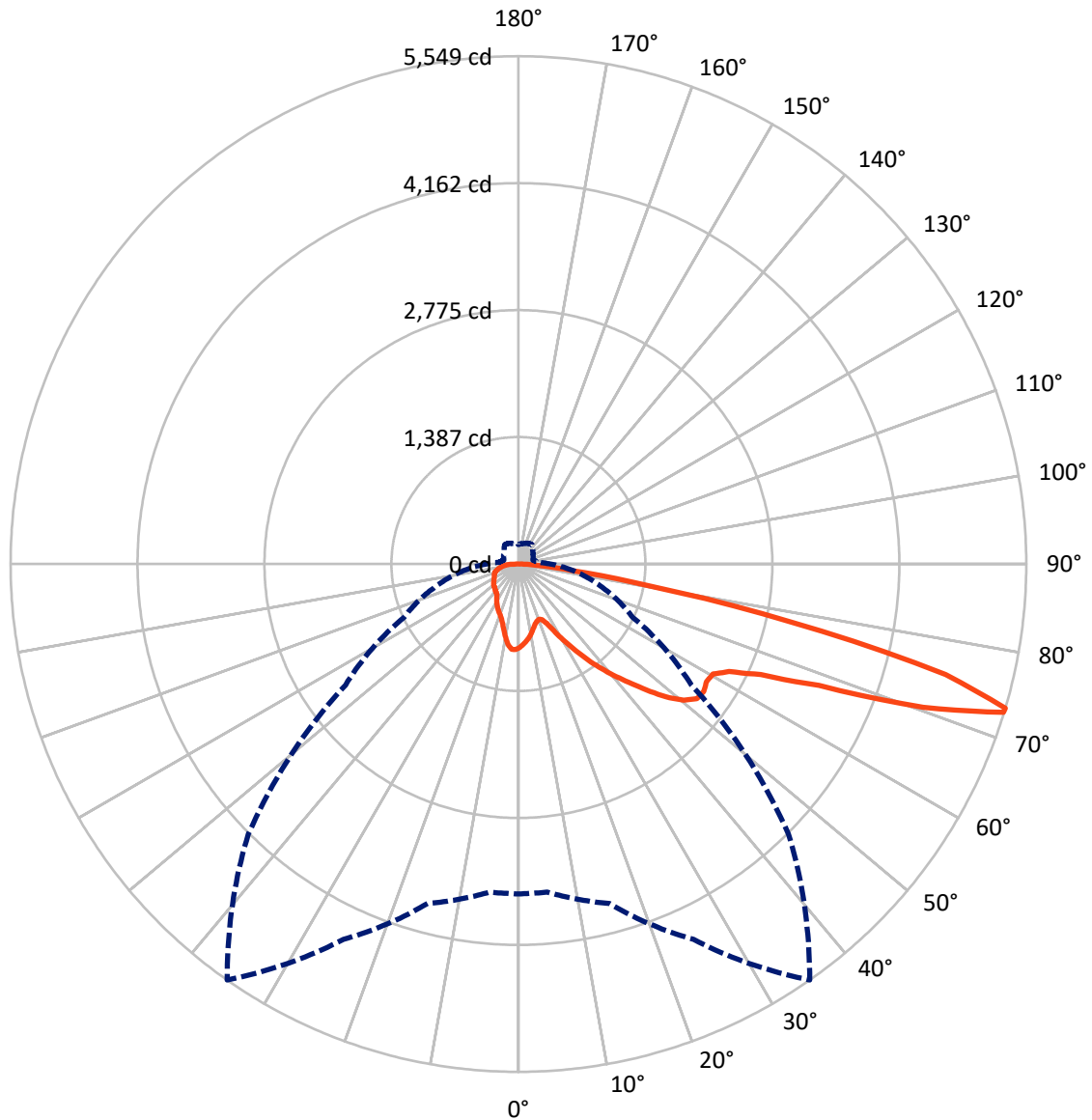
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 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	1156.6	0.0	1156.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	4907.3	0.0	4907.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	6063.9	0.0	6063.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.4
10°-20°	206.8	3.4
20°-30°	334.3	5.5
30°-40°	560.6	9.2
40°-50°	864.1	14.3
50°-60°	1159.3	19.1
60°-70°	1544.4	25.5
70°-80°	1177.9	19.4
80°-90°	133.5	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°	6063.9	100.0
0°-180°	6063.9	100.0

Coefficient of Utilization



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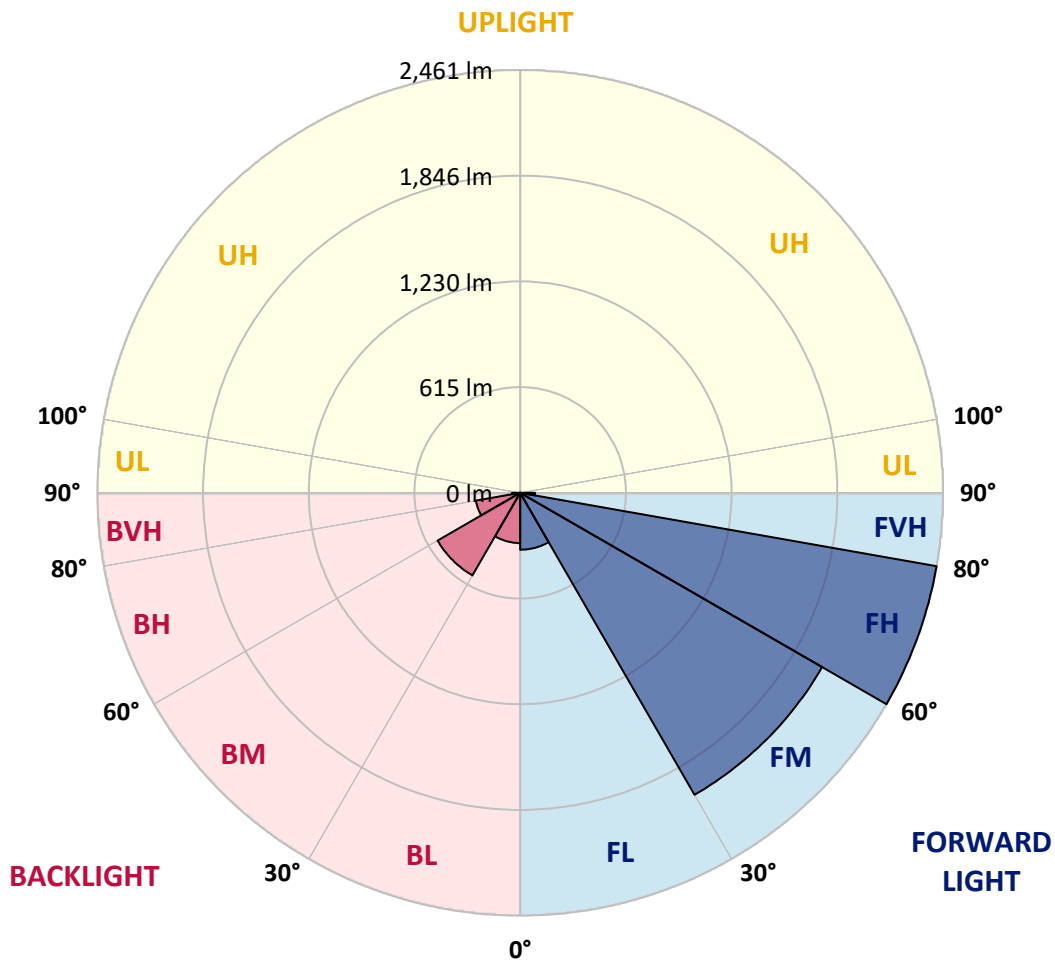
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	331.3	5.5			
FM	(30°-60°)	2029.0	33.5			
FH	(60°-80°)	2460.7	40.6			G2/5000
FVH	(80°-90°)	86.3	1.4			G1/100
BL	(0°-30°)	292.7	4.8	B1/500		
BM	(30°-60°)	555.0	9.2	B1/1000		
BH	(60°-80°)	261.7	4.3	B1/500		G1/500
BVH	(80°-90°)	47.2	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°	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3
2.5°	879.1	880.8	878.9	881.5	885.8	890.5	893.6	898.3	903.6	910.9	912.7
5°	837.8	840.4	840.4	845.0	853.6	861.1	868.1	875.6	886.6	899.2	904.1
7.5°	792.3	793.8	796.4	803.4	815.6	826.4	836.3	848.5	863.7	880.3	889.1
10°	737.6	739.6	743.7	753.6	770.2	785.0	799.3	816.2	835.4	856.1	867.2
12.5°	698.8	698.2	700.1	707.4	721.8	739.9	760.6	782.2	805.8	830.0	843.3
15°	685.8	682.6	675.9	674.1	682.0	700.1	724.0	750.4	778.7	807.8	824.4
17.5°	693.9	688.4	670.1	656.6	655.4	669.2	694.5	724.2	756.8	792.3	813.0
20°	745.1	732.0	686.9	655.8	644.9	651.7	673.8	705.3	743.7	790.9	817.4
22.5°	867.7	848.5	752.8	694.8	658.4	650.2	666.8	700.4	745.1	808.9	842.7
25°	1046.2	1018.9	865.8	792.0	717.0	673.6	677.3	711.8	765.8	850.9	891.7
27.5°	1187.2	1169.4	1013.4	929.2	823.5	736.4	711.4	740.2	808.1	919.6	961.3
30°	1271.1	1260.3	1171.1	1084.7	959.6	836.6	776.7	793.8	874.2	1014.8	1049.2
32.5°	1368.4	1361.9	1318.2	1238.8	1106.2	968.2	880.0	873.8	962.7	1129.3	1145.0
35°	1469.1	1467.1	1441.4	1384.4	1263.8	1141.8	1017.1	975.8	1059.0	1248.1	1238.1
37.5°	1562.9	1559.3	1544.5	1511.3	1428.6	1328.1	1156.9	1080.3	1163.1	1361.6	1317.6
40°	1735.5	1708.2	1657.3	1632.2	1595.1	1485.1	1267.9	1178.0	1270.8	1470.0	1386.4
42.5°	1946.0	1901.5	1806.6	1772.1	1766.9	1608.9	1343.6	1272.6	1379.4	1577.3	1453.9
45°	2111.8	2069.8	1988.0	1944.6	1963.8	1721.0	1419.6	1373.6	1491.2	1690.1	1523.5
47.5°	2288.6	2222.7	2114.3	2127.5	2169.5	1827.0	1497.1	1482.2	1613.8	1816.2	1610.1
50°	2294.9	2244.5	2197.1	2275.5	2340.7	1924.5	1594.0	1596.1	1763.8	1974.9	1725.1
52.5°	2161.8	2151.1	2226.4	2349.6	2443.7	2001.6	1704.3	1713.7	1955.6	2157.3	1851.4
55°	2115.3	2103.0	2190.1	2323.7	2457.7	2065.4	1824.1	1840.9	2187.8	2349.4	1974.7
57.5°	2228.8	2201.7	2207.6	2311.5	2423.6	2135.4	1954.5	1988.6	2440.0	2517.5	2053.8
60°	2546.2	2488.3	2378.2	2375.7	2442.0	2240.2	2105.3	2147.0	2702.0	2597.7	2022.9
62.5°	2991.4	2933.5	2727.3	2593.0	2583.2	2413.1	2290.5	2301.6	2853.5	2488.8	1834.6
65°	3473.4	3421.6	3191.3	3001.7	2910.2	2699.7	2505.8	2370.6	2803.9	2189.2	1504.9
67.5°	4058.4	4002.8	3804.7	3629.8	3541.8	3162.1	2656.8	2304.5	2489.7	1695.9	1081.7
70°	4467.5	4410.8	4332.6	4474.5	4689.7	3829.2	2676.5	2035.7	1859.6	1127.2	651.0
72.5°	3933.8	3907.2	4049.7	4646.9	5543.2	4234.1	2419.2	1482.2	1080.0	598.4	376.8
73°	3604.1	3598.4	3841.1	4526.1	5549.3	4171.6	2306.6	1377.6	926.3	529.4	344.5
75°	1627.5	1674.4	2206.7	3457.1	4821.3	3437.7	1623.4	790.3	523.3	365.7	260.0
77.5°	391.0	407.4	690.4	1641.7	3044.7	2048.6	735.6	390.8	334.6	258.3	189.9
80°	166.5	172.1	265.8	606.6	1433.6	824.9	338.9	261.7	231.5	180.3	133.1
82.5°	92.7	98.5	150.9	275.3	578.6	281.4	206.7	182.3	152.3	108.6	86.6
85°	52.5	55.6	88.3	153.7	245.2	113.0	123.8	121.2	85.9	55.9	42.5
87.5°	24.8	26.8	42.5	71.3	96.1	44.2	63.0	69.3	53.9	34.1	22.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3
2.5°	914.6	919.9	926.0	929.2	932.1	935.6	939.1	939.1	939.7	939.9
5°	908.3	919.0	928.6	932.7	933.6	933.6	932.7	928.0	924.0	925.8
7.5°	894.9	910.5	918.8	917.2	906.2	893.4	882.6	869.4	862.8	861.6
10°	875.6	893.6	895.2	880.6	853.2	825.8	803.2	780.9	770.5	767.9
12.5°	854.4	871.1	861.6	831.7	787.6	747.8	718.9	696.5	686.7	684.1
15°	837.2	848.5	824.9	777.8	722.4	680.2	656.3	639.7	632.7	630.8
17.5°	828.1	830.5	787.4	723.7	664.9	629.6	614.7	606.8	604.2	602.8
20°	832.5	816.2	751.6	673.2	617.7	592.8	589.4	587.4	586.7	585.8
22.5°	854.4	811.9	718.7	625.5	576.3	565.5	568.3	568.1	567.5	566.9
25°	893.4	815.6	686.7	580.0	541.6	539.3	544.5	544.5	542.3	542.3
27.5°	945.0	823.5	650.8	537.0	510.1	510.5	514.5	513.4	510.8	509.0
30°	1007.8	828.4	608.9	498.2	480.7	479.6	480.7	475.9	467.9	467.4
32.5°	1072.2	822.2	560.3	464.0	449.6	447.0	446.1	439.1	430.1	427.4
35°	1130.4	799.9	510.8	436.5	419.9	414.1	418.1	415.8	407.6	405.7
37.5°	1172.9	758.3	466.2	412.4	398.7	397.1	399.8	400.7	391.0	389.1
40°	1201.6	701.8	428.1	391.9	394.5	389.1	380.3	374.2	371.3	370.4
42.5°	1224.5	643.0	396.1	382.3	395.4	379.4	360.4	350.6	355.8	358.2
45°	1251.0	585.6	369.2	370.4	391.0	368.3	346.8	337.2	339.2	339.8
47.5°	1287.4	515.7	340.5	351.2	376.5	360.8	338.3	324.7	315.1	310.8
50°	1337.8	433.0	310.4	329.6	362.2	355.3	325.3	310.8	293.0	288.9
52.5°	1372.8	355.8	285.7	311.6	349.4	344.1	314.7	295.9	277.2	273.7
55°	1353.7	295.5	264.1	291.5	332.5	330.5	306.0	280.7	266.1	263.2
57.5°	1259.1	257.5	247.5	272.6	311.8	318.8	294.5	267.9	257.5	255.3
60°	1078.6	233.5	237.0	259.7	295.0	307.2	282.8	260.9	253.9	252.5
62.5°	836.9	217.5	229.2	250.4	281.9	299.1	276.3	260.0	257.5	255.6
65°	599.7	204.8	220.7	241.1	270.0	291.5	274.0	258.8	259.5	258.0
67.5°	407.4	193.4	210.6	230.6	258.3	284.8	270.9	254.8	262.1	260.4
70°	285.0	182.3	198.7	217.2	243.7	275.5	265.0	248.7	248.1	241.1
72.5°	222.5	167.7	182.3	198.7	225.1	262.3	253.4	235.0	225.4	218.1
73°	212.3	164.2	178.2	194.5	221.0	259.2	250.1	231.2	220.4	213.7
75°	175.6	149.1	161.9	176.5	203.5	243.9	234.4	214.0	200.4	196.2
77.5°	138.0	127.5	139.8	152.9	179.4	221.9	211.1	191.6	184.0	180.5
80°	102.1	105.7	116.5	128.2	155.4	198.3	188.7	169.2	203.0	194.5
82.5°	71.9	80.1	90.0	100.4	130.4	175.3	163.7	143.5	148.5	123.5
85°	42.5	52.5	61.7	70.8	94.1	145.4	135.2	114.4	93.8	89.4
87.5°	24.8	29.2	31.8	41.1	64.7	109.5	95.3	84.7	48.6	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)