

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: P268249

Luminaire Tested: **GAN-AF-02-LED-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-5WQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11144.7 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

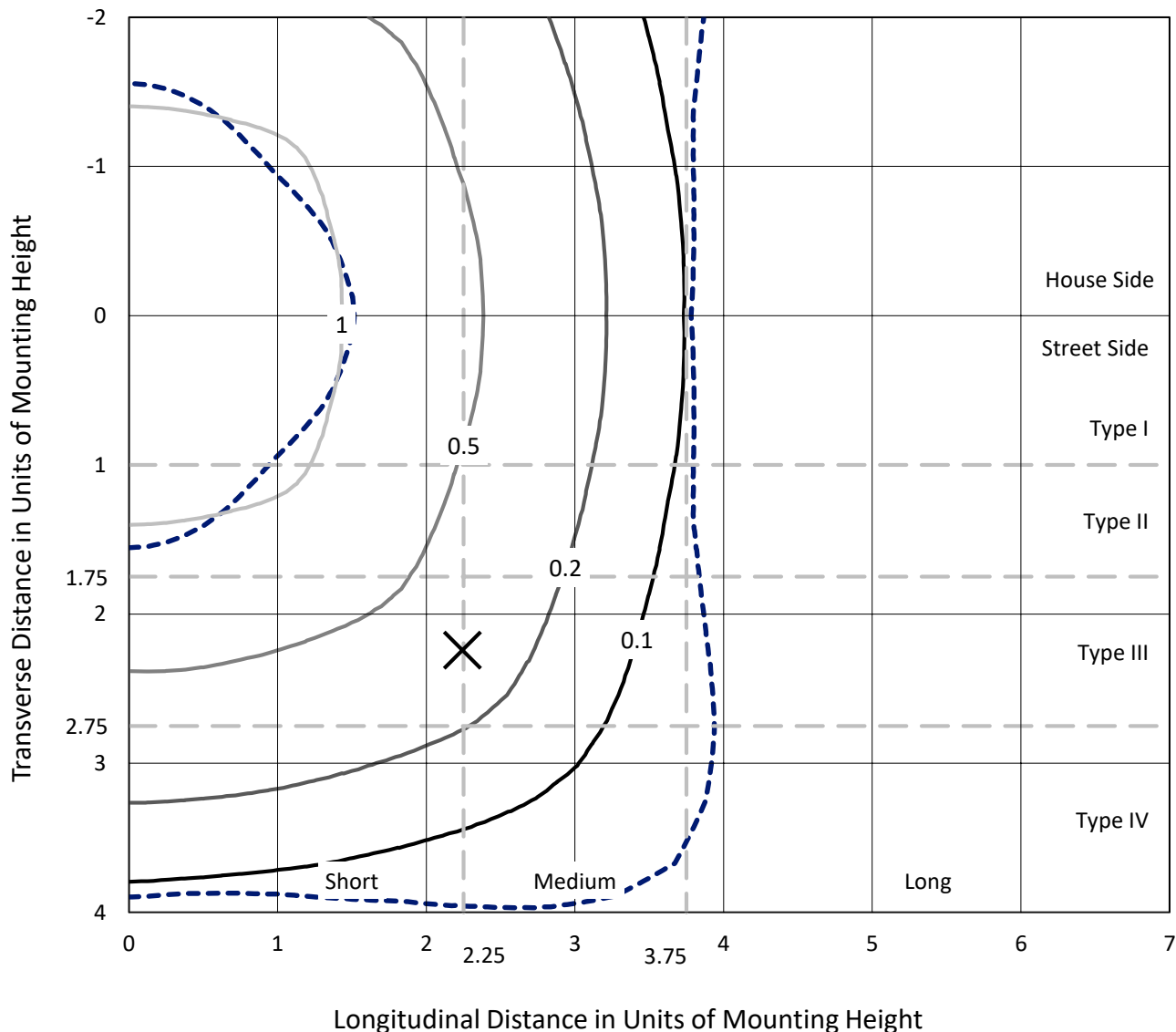
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

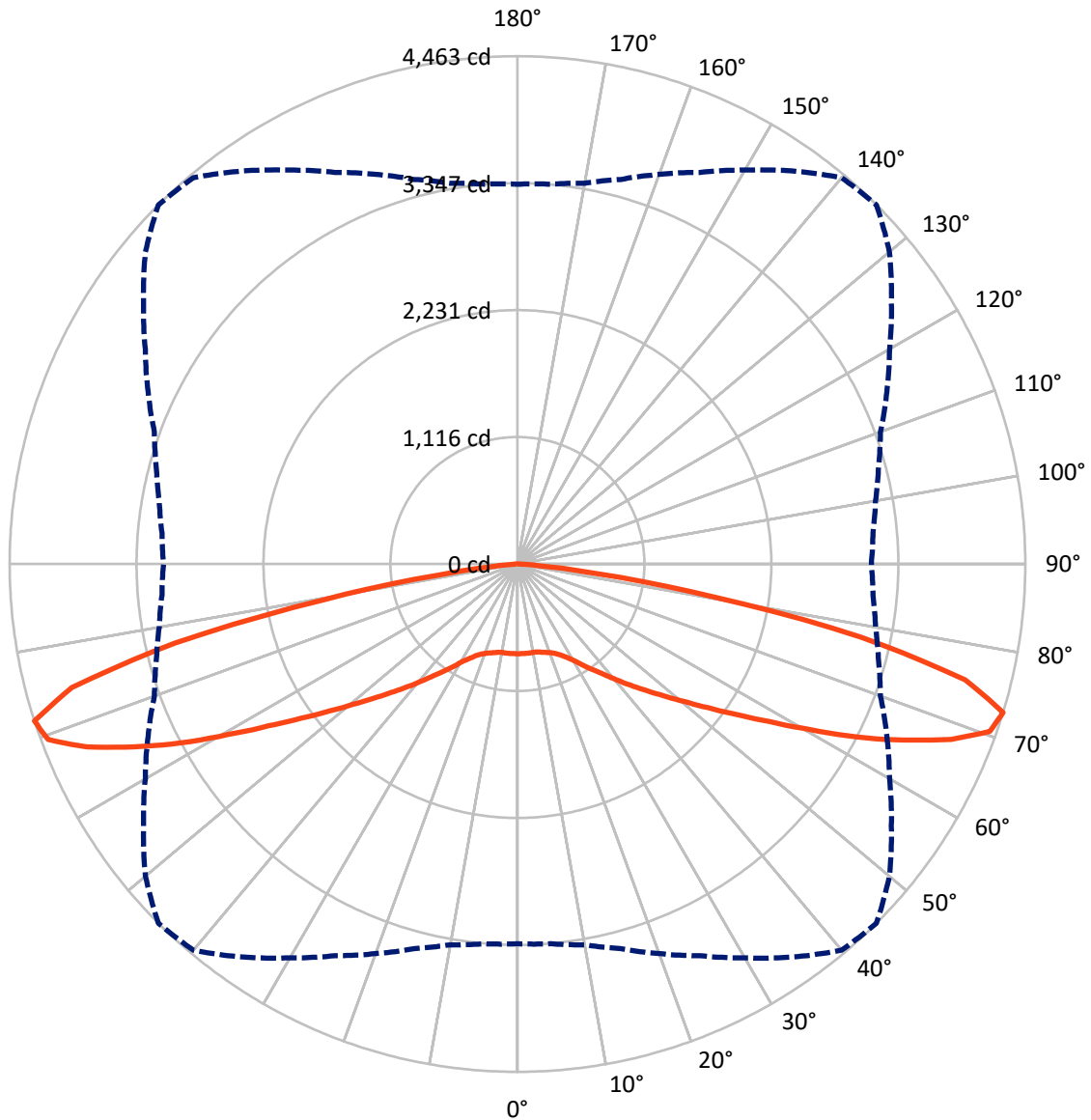
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5572.3	0.0	5572.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5572.3	0.0	5572.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	11144.7	0.0	11144.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	0.7
10°-20°	228.9	2.1
20°-30°	418.3	3.8
30°-40°	721.2	6.5
40°-50°	1232.8	11.1
50°-60°	1998.2	17.9
60°-70°	3314.9	29.7
70°-80°	2919.7	26.2
80°-90°	235.4	2.1
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°	11144.7	100.0
0°-180°	11144.7	100.0



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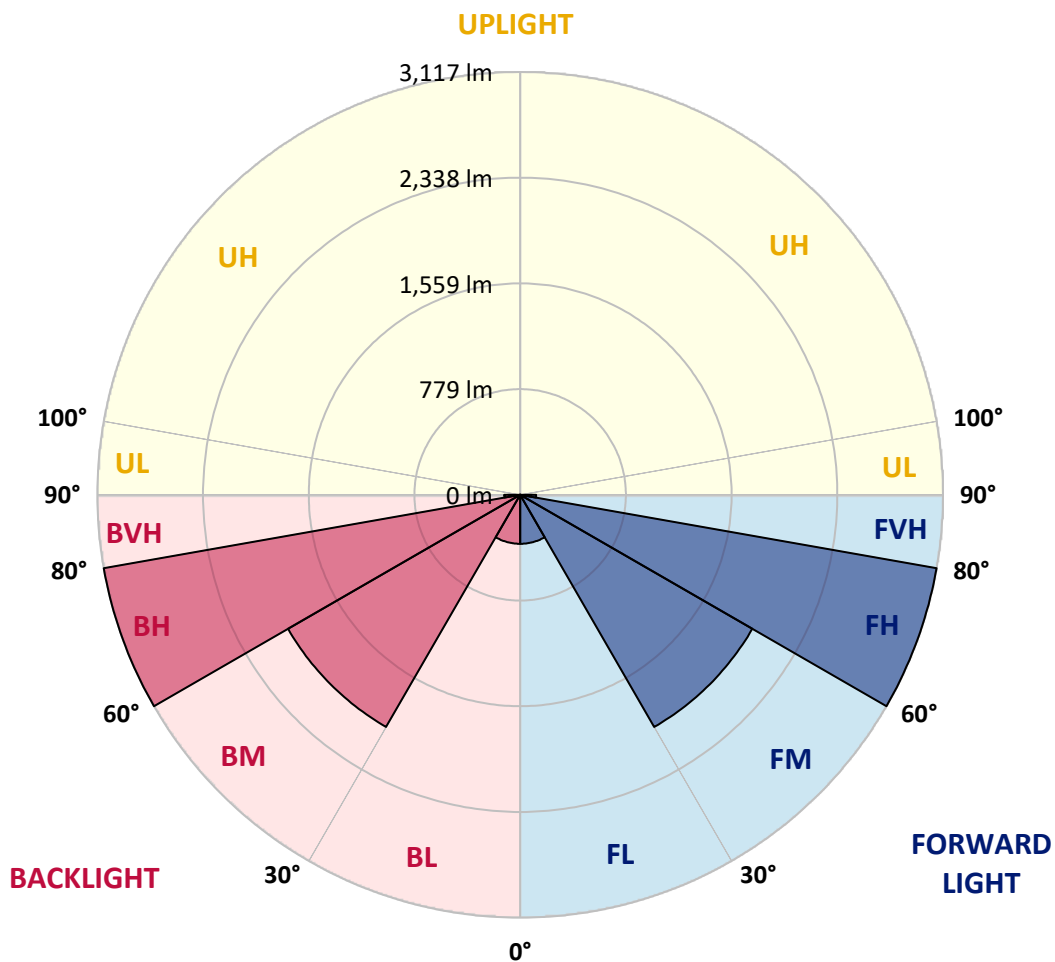
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	361.2	3.2			
FM	(30°-60°)	1976.1	17.7			
FH	(60°-80°)	3117.3	28.0			G2/5000
FVH	(80°-90°)	117.7	1.1			G2/225
BL	(0°-30°)	361.2	3.2	B1/500		
BM	(30°-60°)	1976.1	17.7	B2/2500		
BH	(60°-80°)	3117.3	28.0	B4/5000		G2/5000
BVH	(80°-90°)	117.7	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3
2.5°	789.3	789.7	790.2	789.7	789.7	789.3	788.7	789.3	788.7	787.6	788.3
5°	791.8	792.8	792.8	791.8	792.2	791.8	790.8	791.2	790.2	788.7	788.7
7.5°	794.8	795.4	795.4	794.3	794.8	793.8	792.8	792.2	791.2	789.3	787.6
10°	799.4	799.9	799.4	798.5	798.5	796.8	794.3	793.4	791.2	788.3	786.6
12.5°	804.5	805.2	804.5	803.5	803.1	800.5	798.5	796.8	795.4	792.8	790.2
15°	811.7	812.7	811.7	809.6	808.1	806.0	805.2	805.6	806.0	804.1	801.5
17.5°	825.1	825.5	823.9	819.3	817.4	815.3	815.3	816.3	817.8	816.7	814.3
20°	849.5	848.0	844.4	838.7	836.2	832.6	832.2	832.6	832.6	832.2	830.2
22.5°	880.2	879.3	874.6	867.5	863.8	861.8	858.7	856.2	855.6	854.2	852.1
25°	917.0	916.5	910.9	904.8	902.2	899.7	897.0	893.5	890.4	886.8	884.8
27.5°	964.1	961.9	953.8	950.8	947.2	945.6	942.1	938.0	935.5	930.9	928.3
30°	1015.7	1015.7	1009.1	1008.0	1008.0	1004.5	1000.4	993.2	988.6	984.0	982.4
32.5°	1067.2	1067.7	1061.2	1063.2	1064.8	1067.2	1068.4	1065.7	1062.7	1062.2	1059.1
35°	1141.9	1139.9	1133.2	1134.7	1134.2	1133.8	1133.8	1139.4	1140.4	1141.3	1135.3
37.5°	1234.5	1234.5	1227.9	1227.9	1224.7	1221.7	1217.6	1221.2	1226.7	1228.3	1224.2
40°	1340.2	1343.9	1335.6	1335.2	1336.1	1326.4	1321.9	1327.4	1331.1	1337.1	1332.5
42.5°	1465.0	1462.4	1454.3	1453.2	1447.6	1444.6	1440.4	1445.1	1450.7	1454.7	1456.3
45°	1584.6	1582.5	1573.3	1573.3	1567.7	1565.1	1567.3	1574.9	1577.5	1583.1	1588.7
47.5°	1702.6	1700.1	1693.9	1696.4	1697.0	1701.6	1708.2	1715.5	1722.6	1730.2	1732.8
50°	1823.3	1823.7	1817.1	1823.3	1830.9	1843.7	1861.6	1873.3	1888.1	1897.8	1901.0
52.5°	1933.2	1935.2	1942.3	1956.7	1972.0	1997.1	2027.7	2056.4	2081.0	2097.3	2096.3
55°	2065.1	2068.1	2085.5	2109.9	2135.1	2172.9	2218.5	2268.9	2309.9	2333.3	2318.5
57.5°	2233.7	2240.5	2259.7	2293.1	2330.4	2379.4	2441.8	2517.9	2581.3	2613.0	2588.9
60°	2465.3	2469.4	2492.8	2529.6	2574.7	2635.4	2718.8	2821.0	2910.5	2952.4	2924.8
62.5°	2770.5	2778.1	2797.1	2834.3	2880.3	2949.3	3051.1	3178.8	3290.3	3348.5	3286.2
65°	3134.8	3159.3	3175.2	3213.1	3256.0	3329.2	3435.5	3572.4	3692.0	3730.4	3658.3
67.5°	3495.8	3517.3	3544.8	3588.3	3631.8	3714.0	3812.6	3945.5	4077.0	4111.7	3999.8
70°	3653.8	3666.1	3708.9	3768.2	3851.6	3948.7	4062.7	4212.0	4374.4	4403.0	4261.0
72.5°	3337.4	3349.6	3397.6	3498.3	3643.4	3797.9	3996.6	4215.9	4430.7	4462.9	4267.0
75°	2524.1	2504.1	2575.3	2708.6	2904.4	3119.5	3397.6	3711.9	4022.3	4062.7	3829.0
77.5°	1304.5	1302.0	1355.6	1521.2	1754.7	1999.6	2305.8	2661.0	2964.6	3087.4	2897.3
80°	367.5	371.5	397.2	479.4	616.0	792.8	1032.1	1364.7	1613.1	1739.9	1633.7
82.5°	144.2	155.3	165.1	180.4	198.3	224.3	299.6	445.6	598.0	714.6	585.2
85°	51.7	55.2	78.2	92.5	94.1	99.2	112.9	132.0	159.0	189.6	155.9
87.5°	19.5	21.5	25.1	41.4	41.0	37.3	45.5	47.5	35.8	32.7	40.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3
2.5°	787.2	787.6	787.6	788.3	788.7	788.7	789.7	789.7
5°	787.6	787.6	786.6	787.2	786.6	786.6	787.2	787.2
7.5°	786.6	786.1	785.1	784.6	783.6	783.6	783.6	783.6
10°	785.1	784.6	783.6	783.1	782.6	782.6	782.6	782.6
12.5°	789.3	787.6	786.6	786.1	786.1	786.1	786.1	786.1
15°	799.9	796.3	793.8	793.8	794.3	795.4	795.4	796.3
17.5°	813.2	809.2	806.6	804.5	805.6	807.0	808.1	809.2
20°	829.0	827.0	823.4	821.4	821.4	823.4	824.5	825.1
22.5°	851.1	849.5	848.0	845.5	845.5	846.5	848.4	848.4
25°	883.8	882.8	881.7	879.7	879.3	879.3	880.2	881.2
27.5°	924.6	925.2	924.1	923.6	922.1	921.7	923.2	922.6
30°	979.3	981.9	984.5	982.4	980.0	978.3	976.7	974.8
32.5°	1053.5	1050.4	1048.4	1044.8	1040.1	1036.1	1033.1	1029.5
35°	1123.5	1118.4	1116.4	1119.4	1118.8	1116.4	1112.8	1109.8
37.5°	1209.4	1208.4	1209.4	1215.0	1214.0	1216.6	1209.4	1208.8
40°	1317.8	1318.8	1325.9	1332.5	1336.1	1339.7	1335.6	1331.6
42.5°	1443.4	1442.9	1445.6	1454.7	1460.9	1465.0	1456.3	1455.3
45°	1576.3	1572.8	1574.9	1582.5	1588.7	1593.2	1583.5	1583.5
47.5°	1722.6	1716.4	1709.8	1718.5	1722.1	1725.1	1717.5	1715.0
50°	1885.6	1872.8	1858.6	1862.1	1862.1	1861.1	1851.3	1850.9
52.5°	2072.7	2049.3	2023.2	2013.5	2007.8	2001.7	1984.8	1976.6
55°	2288.0	2252.7	2211.7	2186.7	2173.4	2156.6	2128.4	2120.8
57.5°	2539.4	2484.3	2413.7	2383.1	2353.3	2325.7	2294.6	2285.8
60°	2837.3	2756.1	2662.5	2605.9	2573.6	2547.1	2514.8	2513.4
62.5°	3169.7	3041.3	2935.5	2884.5	2860.9	2837.3	2806.8	2810.8
65°	3507.5	3373.7	3274.4	3233.0	3211.0	3191.7	3161.0	3165.5
67.5°	3840.9	3717.6	3608.8	3566.4	3541.7	3517.3	3489.6	3494.2
70°	4080.0	3927.2	3804.5	3710.4	3651.7	3585.2	3542.2	3531.5
72.5°	4011.6	3775.8	3581.2	3394.5	3285.2	3196.2	3136.0	3109.8
75°	3471.8	3149.7	2899.3	2670.2	2541.5	2436.7	2360.4	2313.0
77.5°	2578.2	2216.4	1920.3	1656.7	1448.1	1308.0	1209.4	1145.5
80°	1411.2	1073.5	784.6	551.5	405.3	336.9	297.5	278.6
82.5°	439.6	283.7	209.0	180.4	167.7	160.4	148.8	129.8
85°	140.0	122.7	113.9	108.9	103.8	90.5	62.3	56.8
87.5°	54.2	55.8	55.2	52.1	53.2	38.4	30.6	27.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)