

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: P193430

Luminaire Tested: **GAN-AF-02-LED-U-5WQ-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193430
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-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 10468 lumens
Efficiency: N/A
Efficacy: 92.6 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

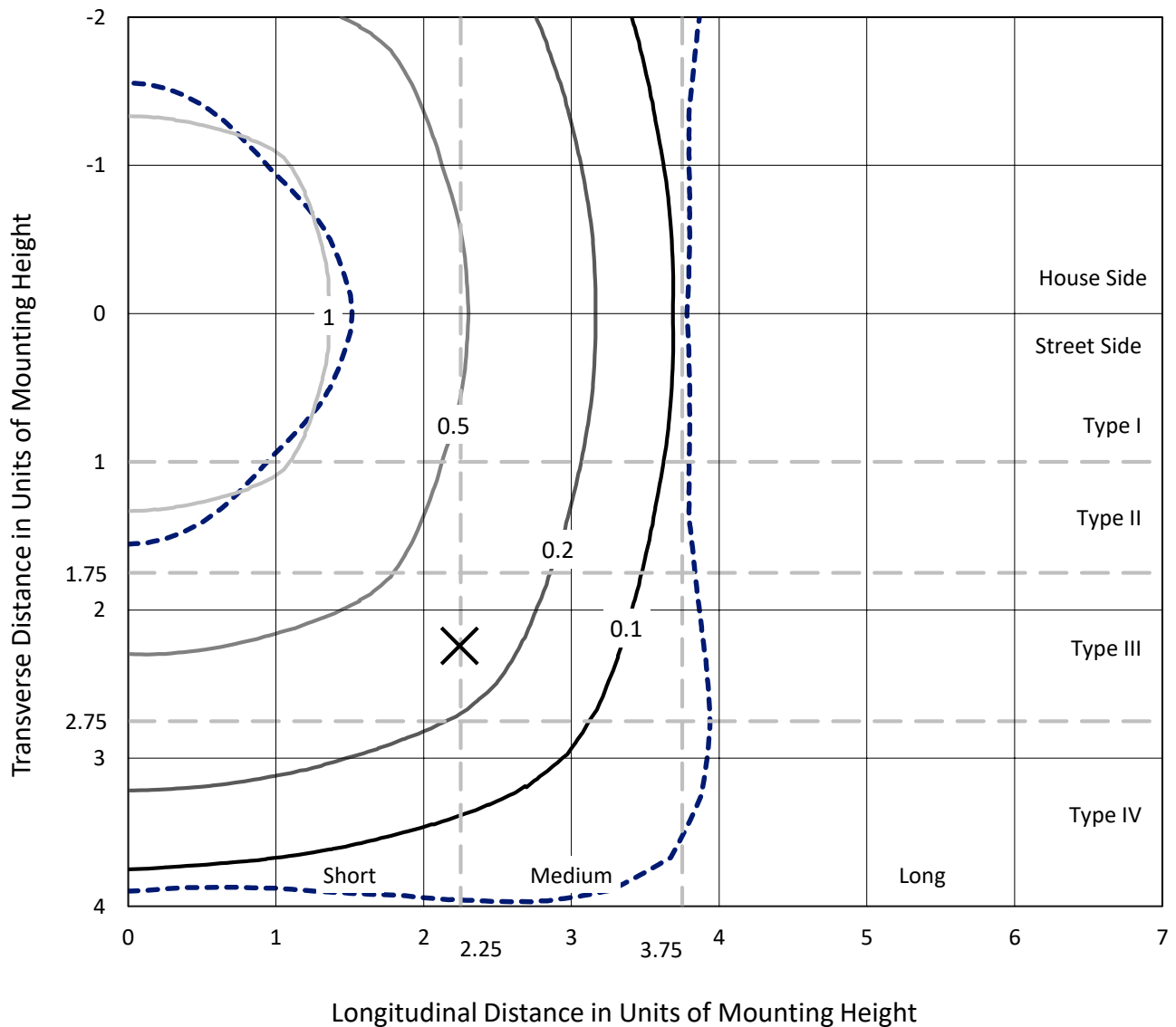


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

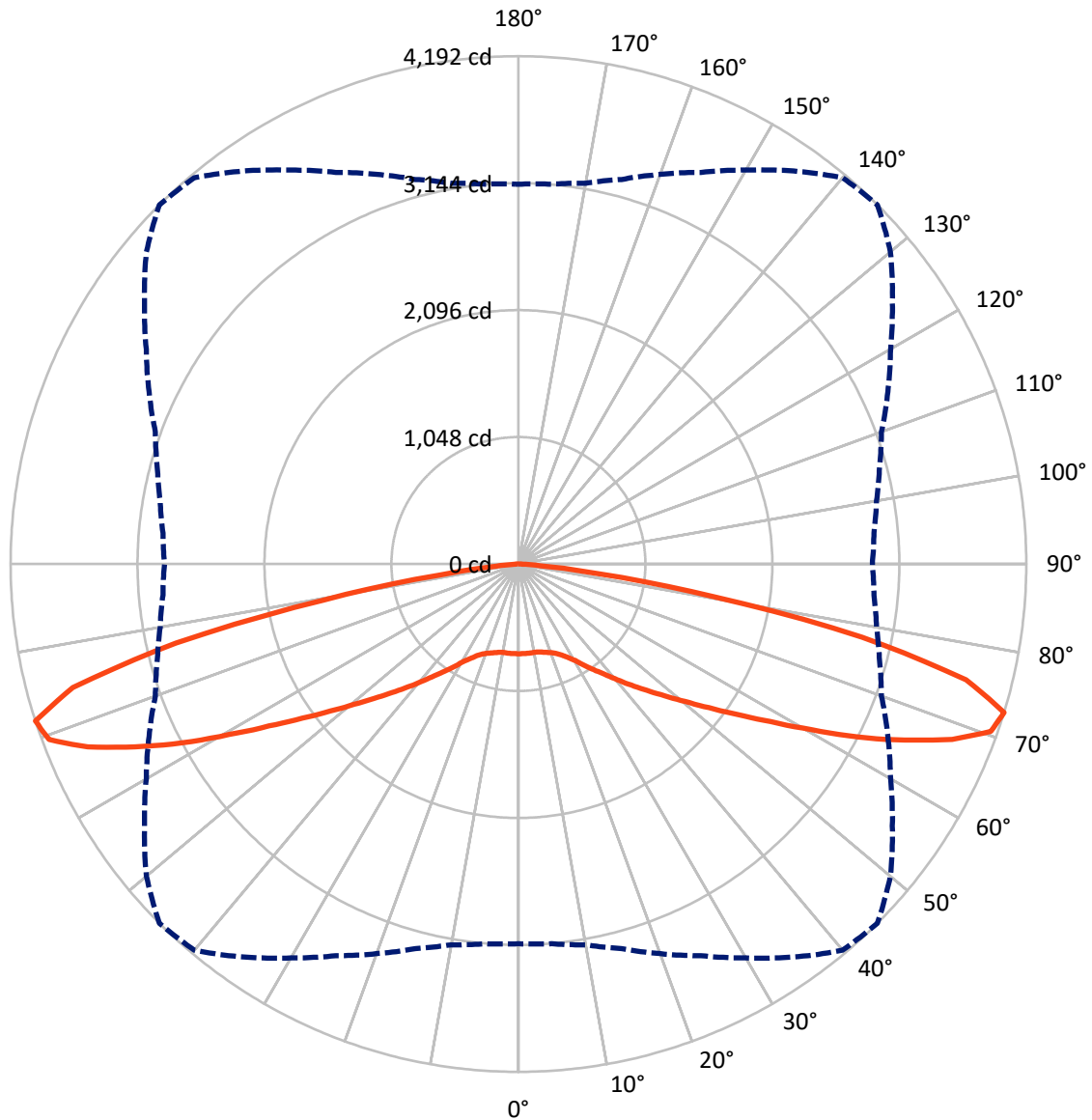


Based on 20 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Semi-Cutoff

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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	5234.0	0.0	5234.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5234.0	0.0	5234.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10468.0	0.0	10468.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	0.7
10°-20°	215.0	2.1
20°-30°	392.9	3.8
30°-40°	677.4	6.5
40°-50°	1157.9	11.1
50°-60°	1876.9	17.9
60°-70°	3113.7	29.7
70°-80°	2742.4	26.2
80°-90°	221.1	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°	10468.0	100.0
0°-180°	10468.0	100.0



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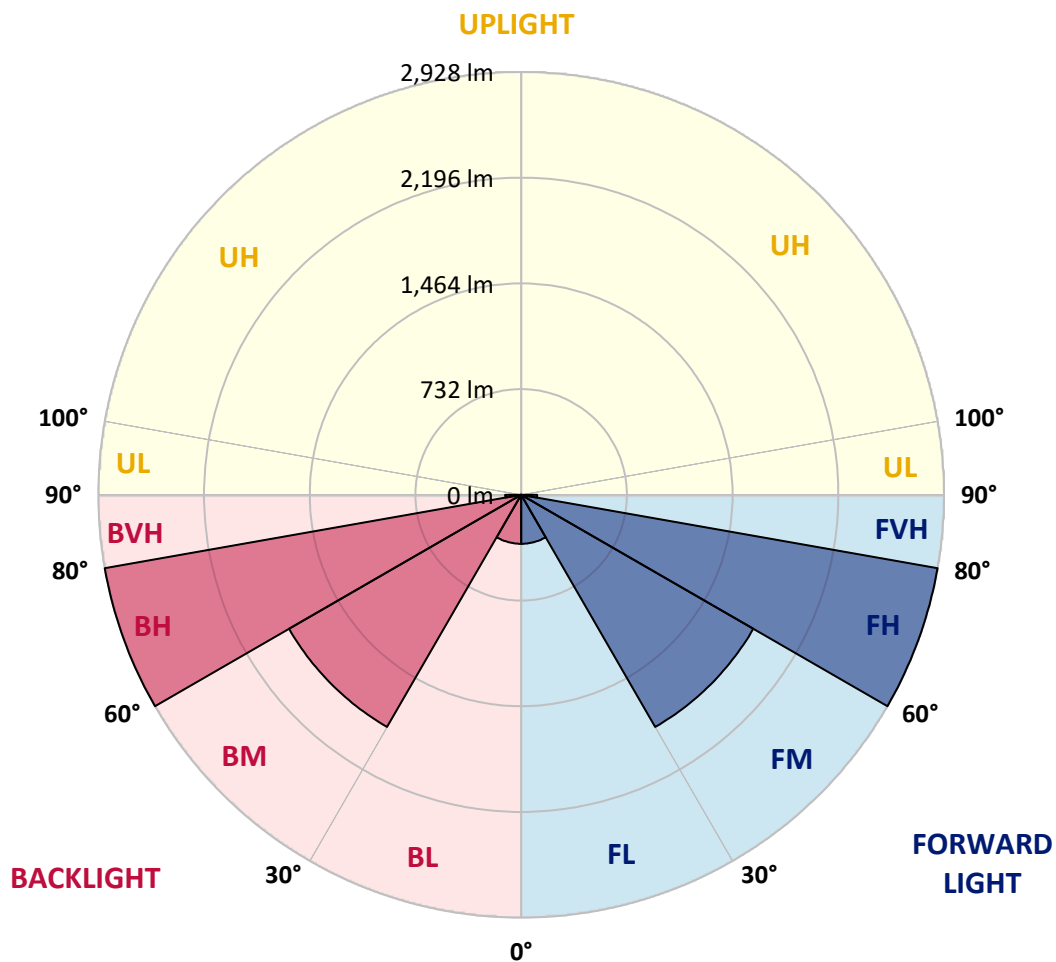
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.3	3.2			
FM (30°-60°)	1856.1	17.7			
FH (60°-80°)	2928.0	28.0			G2/5000
FVH (80°-90°)	110.6	1.1			G2/225
BL (0°-30°)	339.3	3.2	B1/500		
BM (30°-60°)	1856.1	17.7	B2/2500		
BH (60°-80°)	2928.0	28.0	B4/5000		G2/5000
BVH (80°-90°)	110.6	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°	741.3	741.3	741.3	741.3	741.3	741.3	741.3	741.3	741.3	741.3	741.3
2.5°	741.3	741.8	742.3	741.8	741.8	741.3	740.8	741.3	740.8	739.9	740.3
5°	743.7	744.7	744.7	743.7	744.2	743.7	742.7	743.2	742.3	740.8	740.8
7.5°	746.6	747.1	747.1	746.1	746.6	745.6	744.7	744.2	743.2	741.3	739.9
10°	750.9	751.4	750.9	749.9	749.9	748.5	746.1	745.1	743.2	740.3	738.9
12.5°	755.7	756.2	755.7	754.7	754.3	751.9	749.9	748.5	747.1	744.7	742.3
15°	762.4	763.4	762.4	760.5	759.1	757.1	756.2	756.7	757.1	755.2	752.8
17.5°	774.9	775.4	773.9	769.6	767.7	765.8	765.8	766.7	768.2	767.2	764.8
20°	798.0	796.5	793.1	787.9	785.5	782.1	781.6	782.1	782.1	781.6	779.7
22.5°	826.8	825.8	821.5	814.8	811.4	809.5	806.6	804.2	803.7	802.3	800.4
25°	861.3	860.8	855.6	849.8	847.4	845.0	842.6	839.2	836.4	833.0	831.1
27.5°	905.5	903.6	895.9	893.0	889.7	888.2	884.9	881.0	878.6	874.3	871.9
30°	954.0	954.0	947.7	946.8	946.8	943.4	939.6	932.9	928.5	924.2	922.8
32.5°	1002.5	1003.0	996.7	998.6	1000.1	1002.5	1003.4	1001.0	998.2	997.7	994.8
35°	1072.6	1070.7	1064.4	1065.9	1065.4	1064.9	1064.9	1070.2	1071.1	1072.1	1066.3
37.5°	1159.5	1159.5	1153.2	1153.2	1150.4	1147.5	1143.6	1147.0	1152.3	1153.7	1149.9
40°	1258.9	1262.2	1254.5	1254.1	1255.0	1245.9	1241.6	1246.9	1250.2	1256.0	1251.7
42.5°	1376.0	1373.6	1365.9	1365.0	1359.7	1356.8	1353.0	1357.3	1362.6	1366.4	1367.8
45°	1488.4	1486.4	1477.8	1477.8	1472.5	1470.1	1472.0	1479.2	1481.6	1486.9	1492.2
47.5°	1599.3	1596.9	1591.1	1593.5	1594.0	1598.3	1604.5	1611.3	1618.0	1625.2	1627.6
50°	1712.6	1713.0	1706.8	1712.6	1719.8	1731.8	1748.6	1759.6	1773.5	1782.7	1785.5
52.5°	1815.8	1817.7	1824.4	1837.9	1852.3	1875.8	1904.6	1931.5	1954.5	1969.9	1969.0
55°	1939.7	1942.5	1958.9	1981.9	2005.4	2041.0	2083.7	2131.2	2169.6	2191.7	2177.8
57.5°	2098.1	2104.3	2122.6	2153.8	2188.8	2234.9	2293.5	2365.0	2424.6	2454.3	2431.8
60°	2315.6	2319.4	2341.5	2376.1	2418.3	2475.5	2553.7	2649.8	2733.8	2773.1	2747.2
62.5°	2602.2	2609.4	2627.2	2662.2	2705.4	2770.3	2865.8	2985.8	3090.5	3145.2	3086.7
65°	2944.5	2967.6	2982.5	3018.0	3058.3	3127.0	3226.9	3355.5	3467.9	3503.9	3436.2
67.5°	3283.5	3303.7	3329.6	3370.4	3411.2	3488.5	3581.2	3706.0	3829.4	3862.0	3756.9
70°	3431.9	3443.4	3483.7	3539.4	3617.7	3708.9	3816.0	3956.1	4108.8	4135.7	4002.2
72.5°	3134.7	3146.2	3191.3	3285.9	3422.3	3567.3	3754.0	3960.0	4161.6	4191.9	4008.0
75°	2370.8	2352.1	2418.8	2544.1	2728.0	2930.1	3191.3	3486.6	3778.0	3816.0	3596.5
77.5°	1225.3	1222.9	1273.3	1428.8	1648.2	1878.2	2165.8	2499.5	2784.7	2899.9	2721.3
80°	345.2	349.0	373.0	450.3	578.5	744.7	969.4	1281.9	1515.2	1634.3	1534.4
82.5°	135.4	146.0	155.1	169.5	186.3	210.8	281.3	418.7	561.7	671.2	549.7
85°	48.5	51.9	73.5	86.9	88.3	93.1	106.1	123.9	149.3	178.1	146.4
87.5°	18.2	20.2	23.5	38.9	38.4	35.0	42.7	44.7	33.6	30.7	37.9
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°	741.3	741.3	741.3	741.3	741.3	741.3	741.3	741.3
2.5°	739.4	739.9	739.9	740.3	740.8	740.8	741.8	741.8
5°	739.9	739.9	738.9	739.4	738.9	738.9	739.4	739.4
7.5°	738.9	738.4	737.5	737.0	736.0	736.0	736.0	736.0
10°	737.5	737.0	736.0	735.5	735.1	735.1	735.1	735.1
12.5°	741.3	739.9	738.9	738.4	738.4	738.4	738.4	738.4
15°	751.4	748.0	745.6	745.6	746.1	747.1	747.1	748.0
17.5°	763.9	760.0	757.6	755.7	756.7	758.1	759.1	760.0
20°	778.7	776.8	773.5	771.5	771.5	773.5	774.4	774.9
22.5°	799.4	798.0	796.5	794.1	794.1	795.1	797.0	797.0
25°	830.1	829.2	828.2	826.3	825.8	825.8	826.8	827.7
27.5°	868.5	869.0	868.0	867.6	866.1	865.6	867.1	866.6
30°	919.9	922.3	924.7	922.8	920.4	918.9	917.5	915.6
32.5°	989.5	986.6	984.7	981.4	977.0	973.2	970.3	967.0
35°	1055.3	1050.5	1048.6	1051.5	1051.0	1048.6	1045.2	1042.3
37.5°	1136.0	1135.0	1136.0	1141.2	1140.3	1142.7	1136.0	1135.5
40°	1237.7	1238.7	1245.4	1251.7	1255.0	1258.4	1254.5	1250.7
42.5°	1355.8	1355.4	1357.8	1366.4	1372.2	1376.0	1367.8	1366.9
45°	1480.7	1477.3	1479.2	1486.4	1492.2	1496.5	1487.4	1487.4
47.5°	1618.0	1612.2	1606.0	1614.1	1617.5	1620.4	1613.2	1610.8
50°	1771.1	1759.1	1745.7	1749.1	1749.1	1748.1	1739.0	1738.5
52.5°	1946.9	1924.8	1900.3	1891.2	1885.9	1880.1	1864.3	1856.6
55°	2149.0	2115.9	2077.5	2053.9	2041.4	2025.6	1999.2	1992.0
57.5°	2385.2	2333.4	2267.1	2238.3	2210.4	2184.5	2155.2	2147.1
60°	2665.1	2588.8	2500.9	2447.6	2417.4	2392.4	2362.2	2360.7
62.5°	2977.2	2856.7	2757.3	2709.3	2687.2	2665.1	2636.3	2640.2
65°	3294.5	3168.8	3075.6	3036.7	3016.1	2997.8	2969.0	2973.4
67.5°	3607.6	3491.9	3389.6	3349.8	3326.7	3303.7	3277.7	3282.1
70°	3832.3	3688.7	3573.5	3485.2	3429.9	3367.5	3327.2	3317.1
72.5°	3767.9	3546.6	3363.7	3188.4	3085.7	3002.2	2945.5	2921.0
75°	3260.9	2958.5	2723.2	2508.1	2387.1	2288.7	2217.2	2172.5
77.5°	2421.7	2081.8	1803.8	1556.1	1360.2	1228.6	1136.0	1075.9
80°	1325.6	1008.2	737.0	518.0	380.7	316.4	279.4	261.7
82.5°	412.9	266.5	196.4	169.5	157.5	150.8	139.7	121.9
85°	131.6	115.2	107.1	102.3	97.5	85.0	58.6	53.3
87.5°	50.9	52.3	51.9	49.0	49.9	36.0	28.8	25.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)