

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: P200242

Luminaire Tested: **GAP-AF-02-LED-U-5WQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200242
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: GAP-AF-02-LED-U-5WQ-7050-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14354 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 129
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

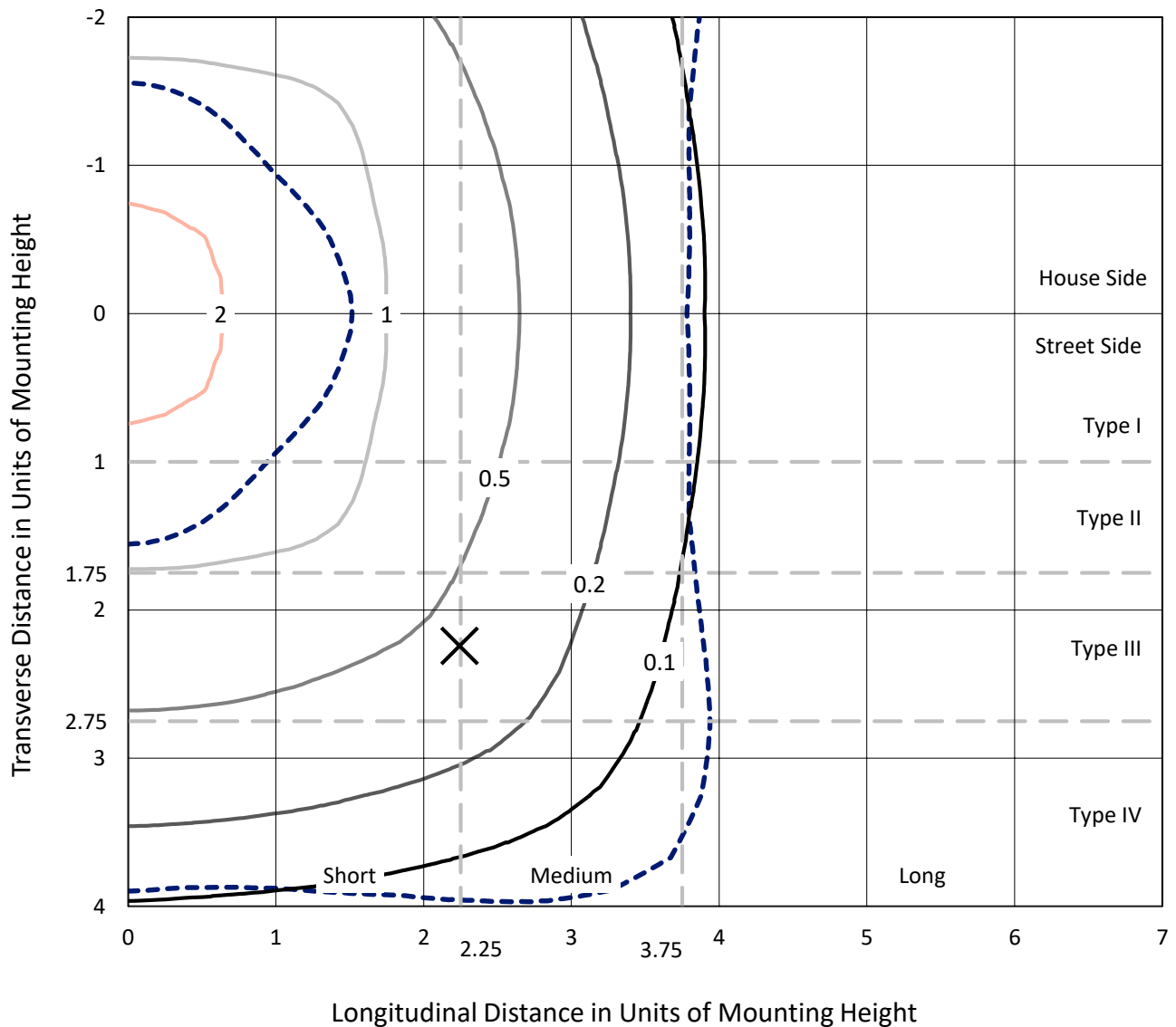


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

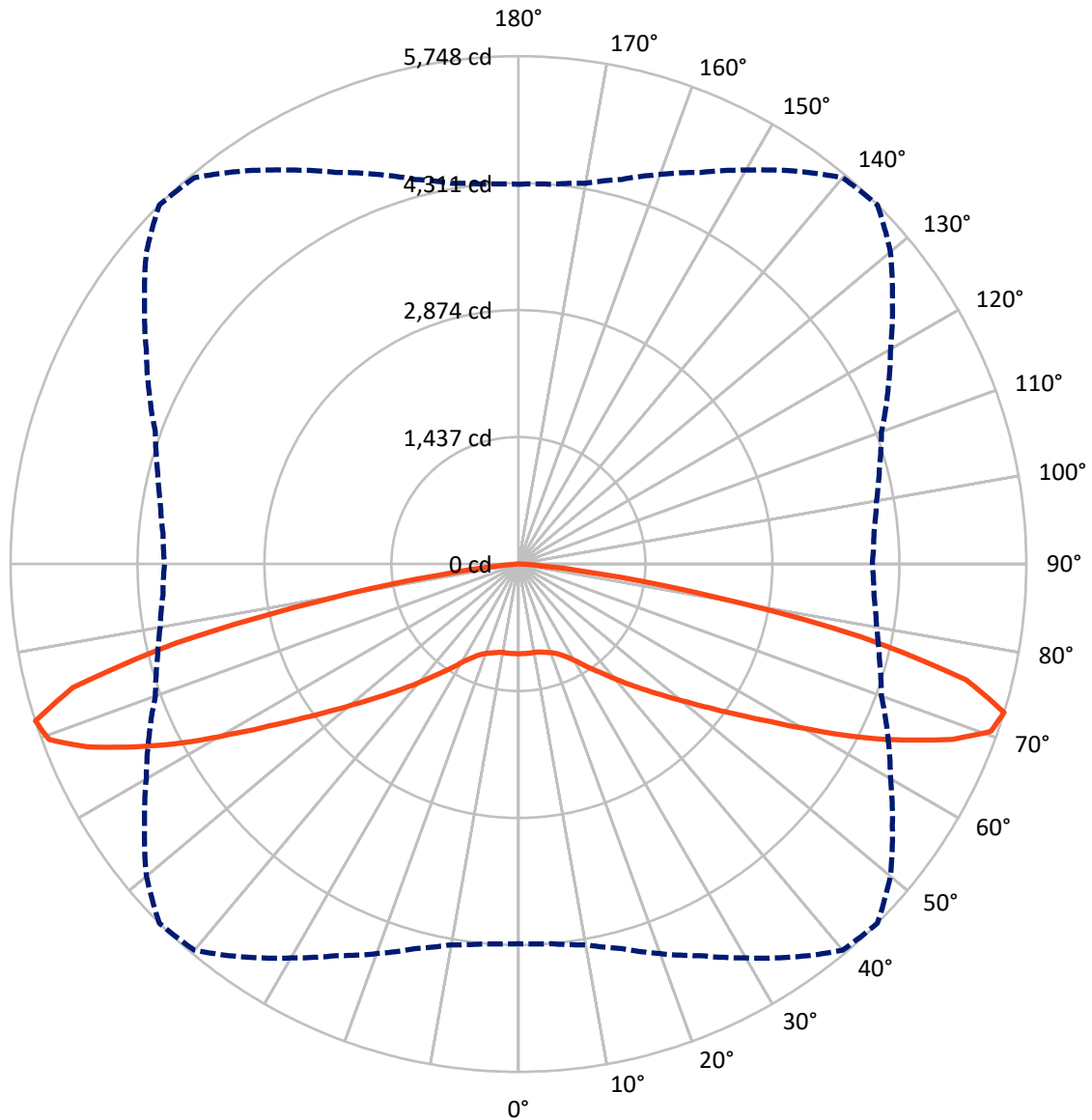


Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

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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	7177.0	0.0	7177.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7177.0	0.0	7177.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14354.0	0.0	14354.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	0.7
10°-20°	294.8	2.1
20°-30°	538.7	3.8
30°-40°	928.8	6.5
40°-50°	1587.8	11.1
50°-60°	2573.6	17.9
60°-70°	4269.5	29.7
70°-80°	3760.5	26.2
80°-90°	303.2	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°	14354.0	100.0
0°-180°	14354.0	100.0



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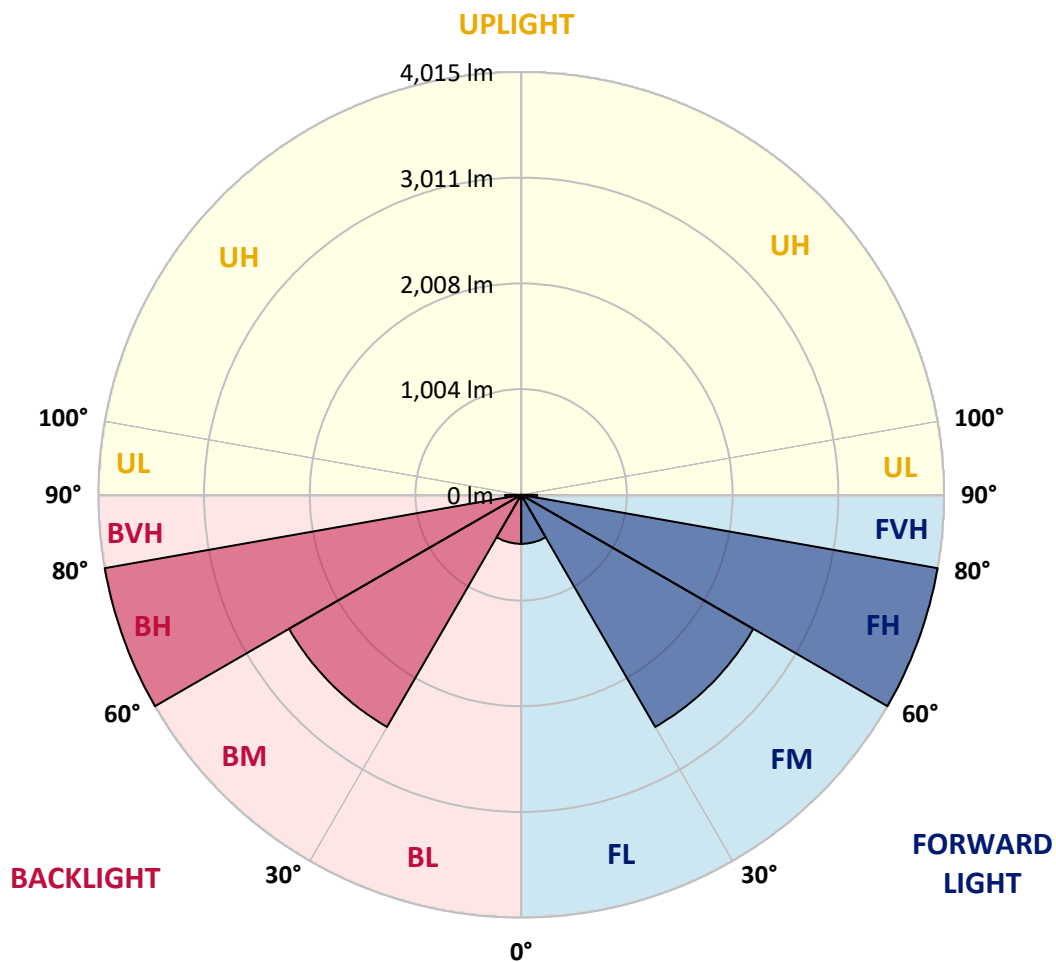
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	465.3	3.2			
FM	(30°-60°)	2545.1	17.7			
FH	(60°-80°)	4015.0	28.0			G2/5000
FVH	(80°-90°)	151.6	1.1			G2/225
BL	(0°-30°)	465.3	3.2	B1/500		
BM	(30°-60°)	2545.1	17.7	B3/5000		
BH	(60°-80°)	4015.0	28.0	B4/5000		G2/5000
BVH	(80°-90°)	151.6	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°	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5
2.5°	1016.5	1017.1	1017.8	1017.1	1017.1	1016.5	1015.8	1016.5	1015.8	1014.5	1015.2
5°	1019.8	1021.1	1021.1	1019.8	1020.4	1019.8	1018.5	1019.1	1017.8	1015.8	1015.8
7.5°	1023.7	1024.4	1024.4	1023.1	1023.7	1022.4	1021.1	1020.4	1019.1	1016.5	1014.5
10°	1029.7	1030.3	1029.7	1028.3	1028.3	1026.4	1023.1	1021.8	1019.1	1015.2	1013.2
12.5°	1036.2	1036.9	1036.2	1034.9	1034.3	1031.0	1028.3	1026.4	1024.4	1021.1	1017.8
15°	1045.5	1046.8	1045.5	1042.8	1040.8	1038.2	1036.9	1037.6	1038.2	1035.6	1032.3
17.5°	1062.6	1063.2	1061.3	1055.3	1052.7	1050.1	1050.1	1051.4	1053.4	1052.0	1048.7
20°	1094.2	1092.2	1087.6	1080.3	1077.1	1072.4	1071.8	1072.4	1072.4	1071.8	1069.2
22.5°	1133.7	1132.4	1126.4	1117.2	1112.6	1110.0	1106.0	1102.7	1102.1	1100.1	1097.5
25°	1181.1	1180.4	1173.2	1165.3	1162.0	1158.7	1155.4	1150.8	1146.8	1142.2	1139.6
27.5°	1241.6	1239.0	1228.5	1224.5	1219.9	1217.9	1213.3	1208.1	1204.8	1198.8	1195.6
30°	1308.1	1308.1	1299.6	1298.3	1298.3	1293.6	1288.4	1279.2	1273.2	1267.3	1265.3
32.5°	1374.6	1375.3	1366.7	1369.4	1371.3	1374.6	1375.9	1372.7	1368.7	1368.0	1364.1
35°	1470.7	1468.1	1459.6	1461.5	1460.9	1460.2	1460.2	1467.5	1468.8	1470.1	1462.2
37.5°	1589.9	1589.9	1581.3	1581.3	1577.4	1573.4	1568.2	1572.8	1580.0	1582.0	1576.7
40°	1726.2	1730.8	1720.3	1719.6	1720.9	1708.4	1702.5	1709.7	1714.3	1722.2	1716.3
42.5°	1886.8	1883.5	1873.0	1871.7	1864.4	1860.5	1855.2	1861.1	1868.4	1873.7	1875.6
45°	2040.9	2038.2	2026.4	2026.4	2019.1	2015.9	2018.5	2028.4	2031.7	2038.9	2046.1
47.5°	2193.0	2189.7	2181.8	2185.1	2185.7	2191.6	2200.2	2209.4	2218.6	2228.5	2231.8
50°	2348.3	2349.0	2340.4	2348.3	2358.2	2374.7	2397.7	2412.8	2431.9	2444.4	2448.4
52.5°	2489.9	2492.5	2501.7	2520.1	2539.9	2572.2	2611.7	2648.5	2680.1	2701.2	2699.9
55°	2659.7	2663.7	2686.1	2717.7	2749.9	2798.6	2857.2	2922.4	2975.1	3005.3	2986.3
57.5°	2877.0	2885.5	2910.5	2953.3	3001.4	3064.6	3144.9	3243.0	3324.6	3365.5	3334.5
60°	3175.2	3180.5	3210.8	3258.2	3316.1	3394.4	3501.7	3633.4	3748.6	3802.6	3767.1
62.5°	3568.2	3578.1	3602.5	3650.5	3709.8	3798.7	3929.7	4094.3	4237.8	4312.8	4232.5
65°	4037.6	4069.2	4089.6	4138.4	4193.7	4287.8	4424.7	4601.2	4755.2	4804.6	4711.8
67.5°	4502.4	4530.1	4565.6	4621.6	4677.5	4783.5	4910.6	5081.8	5251.0	5295.7	5151.6
70°	4705.9	4721.7	4777.0	4853.3	4960.6	5085.7	5232.5	5424.8	5634.1	5671.0	5488.0
72.5°	4298.3	4314.1	4376.0	4505.7	4692.7	4891.5	5147.6	5430.0	5706.5	5748.0	5495.9
75°	3250.9	3225.2	3316.7	3488.6	3740.7	4017.9	4376.0	4780.9	5180.5	5232.5	4931.7
77.5°	1680.1	1676.8	1745.9	1959.2	2260.1	2575.4	2969.8	3427.3	3818.4	3976.4	3731.5
80°	473.4	478.6	511.5	617.5	793.3	1021.1	1329.2	1757.8	2077.7	2241.0	2104.1
82.5°	185.7	200.1	212.6	232.4	255.4	289.0	385.8	574.1	770.3	920.4	753.8
85°	66.5	71.1	100.7	119.2	121.1	127.7	145.5	169.9	204.7	244.2	200.8
87.5°	25.0	27.7	32.3	53.3	52.7	48.1	58.6	61.2	46.1	42.1	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5
2.5°	1013.9	1014.5	1014.5	1015.2	1015.8	1015.8	1017.1	1017.1
5°	1014.5	1014.5	1013.2	1013.9	1013.2	1013.2	1013.9	1013.9
7.5°	1013.2	1012.5	1011.2	1010.6	1009.2	1009.2	1009.2	1009.2
10°	1011.2	1010.6	1009.2	1008.6	1007.9	1007.9	1007.9	1007.9
12.5°	1016.5	1014.5	1013.2	1012.5	1012.5	1012.5	1012.5	1012.5
15°	1030.3	1025.7	1022.4	1022.4	1023.1	1024.4	1024.4	1025.7
17.5°	1047.4	1042.2	1038.9	1036.2	1037.6	1039.5	1040.8	1042.2
20°	1067.8	1065.2	1060.6	1058.0	1058.0	1060.6	1061.9	1062.6
22.5°	1096.1	1094.2	1092.2	1088.9	1088.9	1090.2	1092.9	1092.9
25°	1138.3	1137.0	1135.6	1133.0	1132.4	1132.4	1133.7	1135.0
27.5°	1190.9	1191.6	1190.3	1189.6	1187.7	1187.0	1189.0	1188.3
30°	1261.4	1264.7	1268.0	1265.3	1262.0	1260.1	1258.1	1255.5
32.5°	1356.9	1352.9	1350.3	1345.7	1339.7	1334.5	1330.5	1325.9
35°	1447.0	1440.5	1437.8	1441.8	1441.1	1437.8	1433.2	1429.3
37.5°	1557.6	1556.3	1557.6	1564.9	1563.6	1566.9	1557.6	1557.0
40°	1697.2	1698.5	1707.7	1716.3	1720.9	1725.5	1720.3	1715.0
42.5°	1859.2	1858.5	1861.8	1873.7	1881.6	1886.8	1875.6	1874.3
45°	2030.3	2025.7	2028.4	2038.2	2046.1	2052.1	2039.6	2039.6
47.5°	2218.6	2210.7	2202.2	2213.4	2218.0	2221.9	2212.0	2208.8
50°	2428.6	2412.2	2393.7	2398.4	2398.4	2397.0	2384.5	2383.9
52.5°	2669.6	2639.3	2605.7	2593.2	2586.0	2578.1	2556.4	2545.8
55°	2946.8	2901.3	2848.7	2816.4	2799.3	2777.6	2741.4	2731.5
57.5°	3270.7	3199.6	3108.7	3069.2	3031.0	2995.5	2955.3	2944.1
60°	3654.5	3549.8	3429.3	3356.2	3314.8	3280.5	3239.1	3237.1
62.5°	4082.4	3917.2	3780.9	3715.0	3684.8	3654.5	3615.0	3620.2
65°	4517.6	4345.1	4217.4	4164.0	4135.7	4110.7	4071.2	4077.1
67.5°	4946.8	4788.2	4647.9	4593.3	4561.7	4530.1	4494.5	4500.5
70°	5254.9	5058.1	4900.1	4778.9	4703.2	4617.6	4562.3	4548.5
72.5°	5166.7	4863.2	4612.4	4372.1	4231.2	4116.6	4039.0	4005.4
75°	4471.5	4056.7	3734.1	3439.2	3273.3	3138.3	3040.2	2979.0
77.5°	3320.7	2854.6	2473.4	2133.7	1865.1	1684.7	1557.6	1475.4
80°	1817.7	1382.5	1010.6	710.4	522.1	433.8	383.2	358.8
82.5°	566.2	365.4	269.3	232.4	215.9	206.7	191.6	167.2
85°	180.4	158.0	146.8	140.2	133.6	116.5	80.3	73.1
87.5°	69.8	71.8	71.1	67.2	68.5	49.4	39.5	34.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)